LIBRARY OF CONGRESS
APR 18 1905
PERIODICAL DIV.

The American Artisan
And Hardware Record

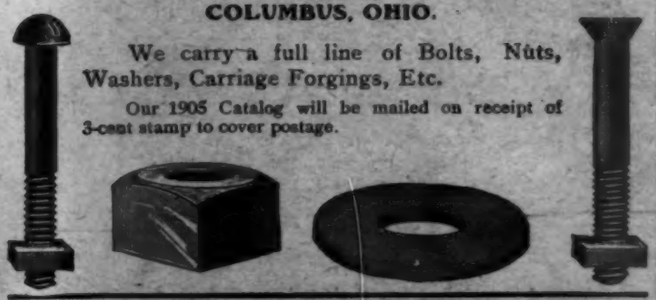
Vol. 49. No. 15. CHICAGO, APRIL 15, 1905. $2.00 Per Year.

BOMMER SPRING HINGES
(ESTABL. 1876.)
BOMMER BROTHERS, M'F'RS. **ARE THE BEST** 256 TO 276 CLASSON AVE. BROOKLYN, N.Y.

COLUMBUS BOLT WORKS
COLUMBUS, OHIO.

We carry a full line of Bolts, Nuts, Washers, Carriage Forgings, Etc.

Our 1905 Catalog will be mailed on receipt of 3-cent stamp to cover postage.



CHAIN
"American" and "Niagara"

Halter Chains—Dog Chains—Cow Chains—Coil Chains. Chains for all kinds of Machinery.

ONEIDA COMMUNITY
Oneida, N. Y.

"The man who whispers down a well
About the goods he has to sell,
Won't reap the golden, gleaming dollars,
Like one who climbs a tree and hollers."

WE MAKE

Stove, Tire and Carriage Bolts—Rods, Rivets, Machine Screws, Nuts, Hinge Pins and Special Bolts, Screws and Nuts of all descriptions

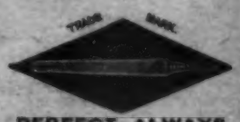
THE ATLAS BOLT & SCREW CO.
Cleveland, O.

Always On Top

Any weak spot in your roofs should be attended to now. A leaky roof can cause an immense loss on short notice. American Seal Elastic Oil Cement is sure cure. If your roof is old and cannot be soldered this is the one thing to use. American Seal Roof Paints, Metallic and Graphite, preserve and protect. None better, none just as good. Prices are right even if the quality is the very best.

Agencies:
THE PERKINS ROOFING & SUPPLY CO. 235 Lake St., CHICAGO, ILL.
STOCKHOFF SUPPLY CO., 107 N. Main St., ST. LOUIS, MO.

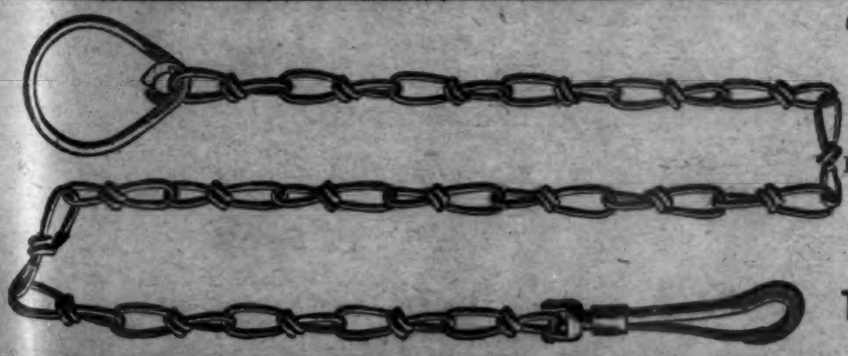
BLACK DIAMOND FILES and RASPS



PERFECT—ALWAYS

Twelve Medals Awarded at International Expositions

G. & H. BARNETT COMPANY
Black Diamond File Works PHILADELPHIA



"BROWN" TIE-OUT CHAINS

Fitted with Stake Ring, a Swivel every ten feet, and a Swivel Snap.

A FREE SAMPLE WILL TELL THE STORY.

The BRIDGEPORT CHAIN CO.
BRIDGEPORT, CONN.

Perfectly Fitted
Handsome as a Base Burner
Powerful as a Furnace

Brilliant "Lift Off" Nickel
All Sizes Double Heaters
Popular Prices

Some Competitors Say that

CINDERELLA AIR TIGHTS

Are Sold on their Reputation

This is a rare compliment and one that is seldom paid to competing goods.

We are willing to admit both the **truth** and **logic** of this statement.

For what is reputation but merit with its "good clothes on?"

Cinderella Air Tights have won their reputation by their merits.

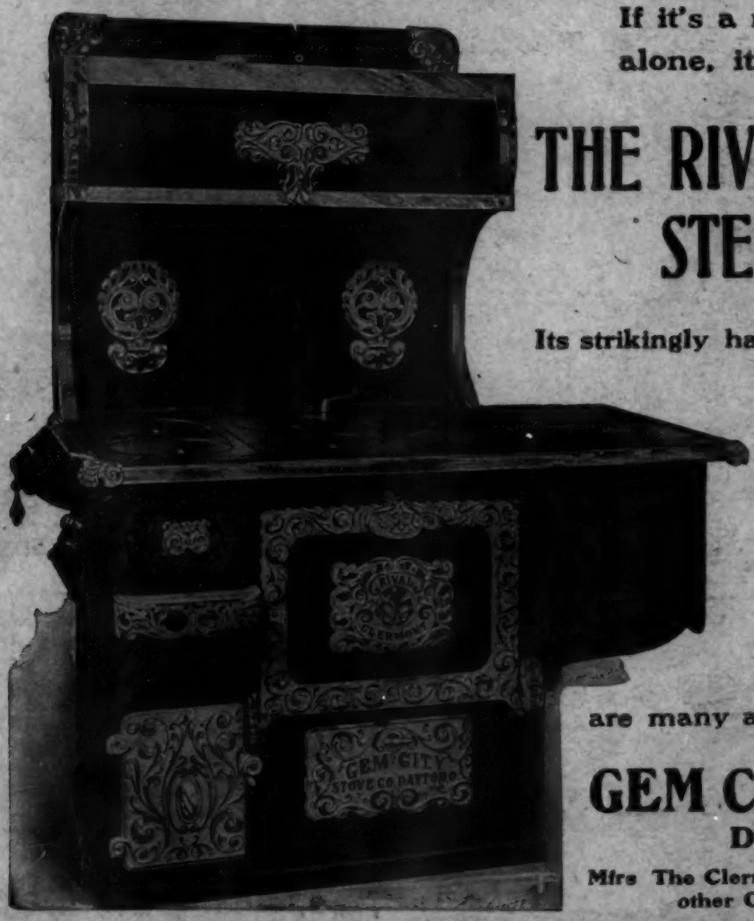
Almost anybody is willing to put their money on a "sure thing."

That is why their reputation attracts customers.

Exclusive agencies maintained.

Pittsburgh Stove & Range Co.
PITTSBURGH, PA.

Western Agency:
W. D. SAGER, 38 to 40 Michigan St., - CHICAGO



If it's a matter of cold cash alone, it's policy to handle

THE RIVAL CLERMONT STEEL RANGE

Its strikingly handsome appearance attracts the customer when he enters the store. Its numerous little ingenious, comfort-infusing devices lend a charm. Beneath it all is a powerful framework, a massive construction, made of the best materials the world can furnish. Its talking points are many and forcible.

GEM CITY STOVE CO.
DAYTON, OHIO

Mfrs The Clermont Air Tight Hot Blast and many other Oaks and Stoves and Ranges

M TRADE MARK

Moore's Stoves Always Please

MOORE'S 3 STORY SYSTEM
FOR BASE BURNERS

A Genuine Bargain

¶ Any customer you have would accept a ten dollar bill as a present.

¶ No expectant buyer coming into your store but would place double that value upon the actual doing away with the ashes and dust nuisance ordinarily associated with having a stove in the parlor.

¶ That's where our "Drop the Ashes Down Cellar comes in as a powerful lever in helping to sell Moore's Base Burners. Its a good thing and costs your customer nothing. You offer the best made and smartest looking base burner in the world, complete with everything, including the regular ashpan, and throw in "ashes down cellar" feature, and all for the one price. Most buyers take kindly to any proposition of this kind and you know the result which naturally follows.

¶ We own the patent, and some dealer in your town will have the exclusive sale of this specialty. We shall be pleased to place it in your hands if you act quick enough. We are placing agencies every day. DO IT NOW.

JOLIET STOVE WORKS, Joliet, Illinois.

"Quick Steel Heaters"

FOR COAL

Top Made of Steel **Bottom Made of Steel** **Body Made of Steel**

It is lighter and stronger than stoves having these large parts made of cast iron. It saves breakage. It saves in freight charges.

All steel parts are made by machinery and dies. They are absolutely alike and interchangeable. A damaged or worn-out part is quickly replaced.

Steel Top and Bottom are of the same material as the body. Their expansion and contraction are alike; therefore they fit air-tight and remain so.

"Quick Steel Heaters" heat quicker because there is less metal to heat through than if they had cast iron top and bottom.

The Fire Pot, with air-slots running up inside, acts to keep the live fire on the OUTSIDE of the coal, thus radiating the heat rapidly.

The line is new, only one of its kind, and a good seller which pays the dealer a profit.

Four Sizes **Exclusive Agencies**

WE ALSO MAKE AN ENTIRELY NEW AND COMPLETE LINE OF

"AIR-TIGHT WOOD HEATERS"

THE PRETTIEST, AIR-TIGHTEST, SMOOTHEST AND MOST SOLID LINE EVER BROUGHT OUT--PRICES ARE RIGHT

DANGLER STOVE CO. DIV.
CLEVELAND
Sales Department for the EAST

RINGEN STOVE CO. DIV.
ST. LOUIS
Sales Department for the WEST

Remodeled

Newer Than Ever

Sprucer Than Ever

The Victor Steel Range

The Steel Range of the Year.

It pleases the rich by its quality. It pleases the poor by its price.

See the new fire-box. Get a line on the other improvements.

Get our prices and circulars. They'll make you think.

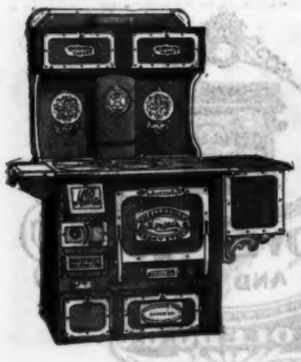
Toledo Stove & Range Co., Toledo, Ohio

Base Burners, Oaks, Hot Blasts, Steel Ranges and Cooks, Cast Ranges and Cooks.

ASK

JOHN KONTNY, 65-67 N. DESPLAINES STREET, CHICAGO.

He's the Western Agent.



"Our Plan"

is an assistance in the sale of

Monarch Ranges

It will increase the range trade and the profit of any dealer without any additional expense—we stand the expense.

Monarch Ranges

represent the best value in steel range construction. Attractive in appearance and attractive in price. Let us submit a sample subject entirely to your approval and returnable at our expense for freight both ways, or ask for "Our Plan" and prices.

Malleable Iron Range Company, Beaver Dam, Wis.

THE IRON QUEEN

A FULL NEW LINE

They Have

Square Oven
Drop Pouch Feed
Aluminum Lined Oven Doors
Deep Ash Pit
Large Cast Ash Pan with bail
Cemented Top Oven Plate
Oven Door Pedal or Kicker
Enameled Reservoir
A Fine Looker
A Good Worker
Well Mounted
The price extremely low.

Nickeled Parts:

Swing Cover Holder
Towel Rod
Outside Oven Shelf
Grate Shaker
Oven Door Name Plate
Lid Lifter

Send for a sample. It's O. K. and a Winner.

The Portsmouth Stove & Range Co.

PORTSMOUTH, OHIO

Morley Bros., Saginaw, Mich.,
Wholesale Agents for Michigan.

BORN'S 1905 RANGES

NEW SERIES

Square and Reservoir

SIX SIZES

16 in., 18 in. and 20 in. Ovens.

8 Gal. Reservoir

They will fully meet the demands of the trade. All the well known features of quality and convenience that have made this line famous have been retained and many new ones added, placing it still further in advance of competition.

Everybody knows about the Patent Removable Non-warping Oven Bottom, Counterbalanced Oven Door, Patent Malleable Oven Door Hinges, Adjustable Flue Strip and Patent Encased Reservoir, but in the cut herewith will be seen numerous improvements—New Pouch Feed of extra large size; New Roll Front Warming Closet with steel brackets; New Draw-out Coal and Wood Grate; New Reservoir Construction; New Nickel Ornamentation; and other New Ideas, which cannot be properly explained here.

Send for particulars and prices.

The Born Steel Range Company, CLEVELAND, OHIO.

VAN'S RANGE

Patent Improved Wrought Steel Portable

For Hotels, Restaurants, Public Institutions, Boarding Houses, and Private Families. All kinds of Hotel Implements for culinary purposes. Manufactured and for sale by

The John Van Range Company

419 Elm and 410, 412, 414 and 416 Home Streets

CINCINNATI, - - - - - OHIO

STAR STOVES AND RANGES
STAR SHOVEL & RANGE CO. VINCENNES, IND.
GUARANTEED

VINCENNES, INDIANA

DETROIT VAPOR STOVES

28 STYLES

"DETROIT"

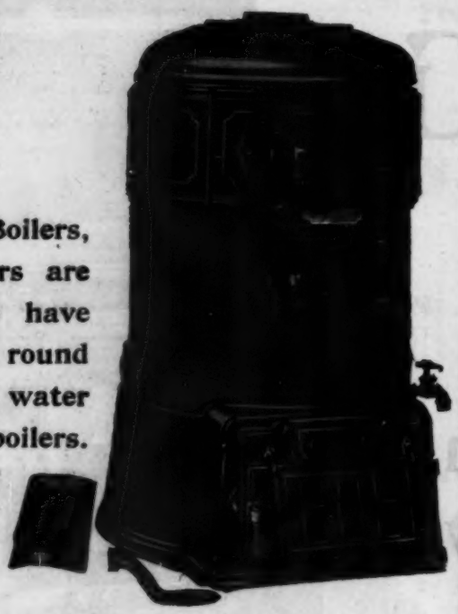
Double Ring Burner

No Generating. Perfect Combustion. No Waste of Gasoline. Pure Fire. No Smoke. No Smell. Absolutely Safe. Self-Cleaning. Our **CABINET RANGES** stay when sold as they bake and are O. K.

Send for Catalogue K and Secure Agency

The Detroit Vapor Stove Co.
DETROIT, MICHIGAN

Floral City



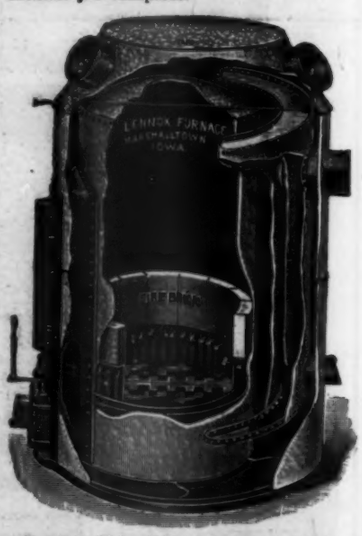
Hot Water Boilers, Steam Boilers are leaders. We have a full line of round and sectional water and steam boilers.

Write us for catalogue.

Monroe Foundry & Furnace Co.
Monroe, Mich.

Dealers
Send Us Your Plans

and let us give you our heating engineer's detailed estimate of the cost of a hot air furnace job complete.



Don't hold back because you are not our agent. Get a job to figure on and we will make you our agent.

Lennox Steel Furnaces are gas tight, no packed joints, no exposed fire pots to crack, are easy to set and to operate and give a dealer less trouble than any other make.

Sold from Pittsburg to Denver and from Canada to Texas.

Try a Steel Furnace—You'll never handle a cast iron furnace again.

The Lennox Furnace Co.
Marshalltown, Iowa.

It Will Pay You

to illustrate your advertisements in your local papers. A sheet of comic advertising cuts sent on application

These cuts are furnished with catchlines showing their application to the hardware, stove and tinners' trades.

Address

DANIEL STERN
69 Dearborn St., - CHICAGO

1885 **THE RETORT** 1905

Nos. 216	218	220
Weights 320 lbs.	405 lbs.	475 lbs.

This line of medium priced Heaters for

HARD COAL, SOFT COAL, COKE and LIGNITE

offers the trade the

GREATEST VARIETY

in sizes and prices of any line in the market.

EVERY ONE SPECIALTIES,

whose sale you can

CONTROL

and secure profits.

In these days of catalogue house competition it is necessary that you have something different from the catalogue houses as well as your local competitors.

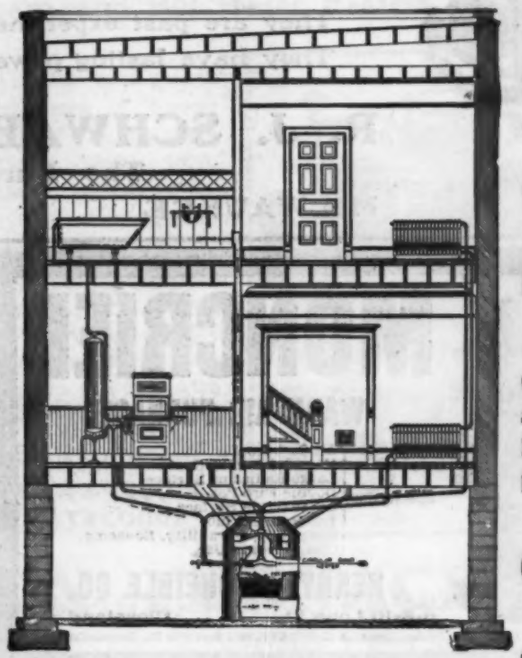
We will be pleased to answer questions and quote prices.

MARION STOVE CO.,

MARION, IND.

Persistent Advertising

ONE who watches carefully the pages of general advertising mediums is struck by two things: the persistency with which those advertisers who are recognized as successful maintain their advertising week after week, month after month, and year after year; they never seem to abate their effort, apparently the volume of their business increases steadily. The other thing noticeable is the large number of advertisers who thrust their announcements above the surface for a little while and then sink into oblivion. They either had not merit as a basis for their claims or they did not possess the skill to steer their enterprise successfully, or else they lacked the nerve to put forth proper effort.—*Advertising Experience.*



SECTION OF FURNACE SHOWING

Smith's Circular Giant

Connected to two Radiators, also supplying hot water for domestic purposes :: :: :: ::

Charles Smith Company

101 Lake Street, Chicago.

ABOVE ALL THINGS

A dealer must have implicit confidence in the goods he sells, if he wishes to attain success. To have this confidence, the dealer in turn must know his goods to be A1.

The **MUELLER** all cast, double radiator furnace is better than any other furnace on the market, and **MUELLER** agents have that confidence in them that brings success.

Why not join the successful class? Let us tell you how.

L. J. MUELLER FURNACE CO.
ESTABLISHED 1857
191 Reed Street MILWAUKEE, WIS.

IF you want a furnace that sells because of its intrinsic merit, that pays the dealer a reasonable profit, that has the advantages of steam and hot water and the disadvantages of neither, that is made by an honest, reliable, thoroughly established concern—try

The
GILT EDGE
Line

They are always first with every real improvement.
They are past experiment.
They have lasting powers.

R. J. SCHWAB & SONS CO.
The Furnace Men
MILWAUKEE - WISCONSIN

MONCRIEF
WARM AIR FURNACE.

Specialties:
- All Cast Iron.
- Moncrief Duplex Grate.
- Large Radiating Surface.
- Double Fire Pot.
- Large Grate Surface.
- Top Return Flue.
- Simplicity, Durability, Economy.
- Cleanliness in Use.

HENRY & SCHEIBLE CO.
6-8-10 Long St., Cleveland, O.
Sales Agent—J. C. KIMMEL, 3214 East 15th St., Kansas City, Mo.

CUT THIS OUT

To the Publishers
The American Artisan and Hardware Record
69 Dearborn Street, CHICAGO

Please send us THE AMERICAN ARTISAN each week for three months. At the end of that time we will remit Two Dollars for one year's subscription, or 50 cents in case we decide to discontinue.

NAME .....
ADDRESS .....
TOWN .....
STATE .....

THE BUILDING SEASON

SECTIONAL VIEW
Showing inside and outside casings, and positive cap attachment over the flues through which warm air is forced to distant rooms

The season is rapidly approaching when Building operations will be pushed with increased vigor—new Homes, Churches and Schools will be started—and every one will need a Heating System.

This is *your* opportunity.

With our help you'll find it an easy task to obtain the heating contracts for a majority of the new buildings in your vicinity, and also install several Heating Systems in old buildings.

The KELSEY Warm Air Generator enjoys distinct advantages over Steam, Hot Water or Hot Air, and these features appeal to any thinking purchaser.

Write for our KELSEY Literature, and if we have no Agent in your town, we'll go over the matter carefully with you, and show you how to enter a better class of heating work.

Send for our Proposition to-day.

"There's Only ONE Warm Air Generator."

KELSEY HEATING COMPANY, SYRACUSE, N. Y.

New York City:
156 FIFTH AVENUE

Western Sales Agents:
COOK & VAN EVERA CO., 38 E. Lake St., CHICAGO, ILL.

JAMES SMART MFG. CO., Ltd., Brockville, Ont., Sole Makers for Canada.

THE NAME

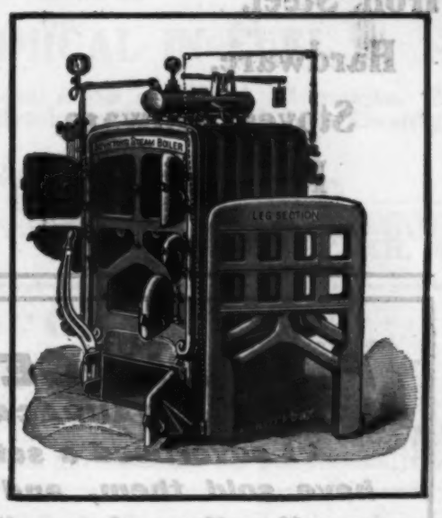
BOYNTON

has an established value when applied to

Furnaces, Steam and Hot Water Heaters.

This has been gained by years of honest value — by giving in 1849, 1860, 1870, 1880, 1890, 1900, 1905 the best heating apparatus made at that time. Our customers know that we keep abreast of the times and are always first in the field with every real improvement.

WRITE US FOR CATALOGUE



The BOYNTON FURNACE CO.

147-149 Lake St., CHICAGO **207-209 Water St., NEW YORK**

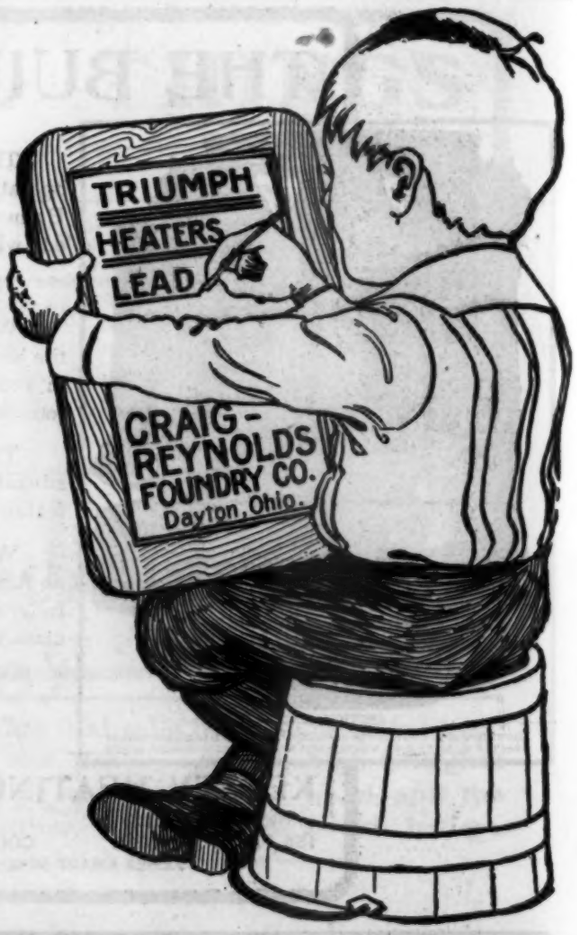
JOHN KONTNY

65-67 N. DESPLAINES ST.

CHICAGO

WESTERN AGENT

TRIUMPH KING FURNACE. Five Sizes. Hard or Soft Coal. Portable or Brick Set.



"BLUE BOOK" CREDITS

—OF THE—

Iron, Steel, Hardware, Stoves, Tinware, Plumbing, Etc., Trades.

This Agency issues as complete and reliable book of credit ratings fo this special branch of trade as has ever been published, containing about 400,000 rated names of wholesalers, retailers and manufacturers, covering the trade thoroughly. The ratings are conservative and very reliable. The *paying record* is based upon *ledger experience* of credit men everywhere.

You buy credit information. Isn't it the part of a good buyer to post himself thoroughly on the merits of a book of ratings, gotten up especially for his trade by men with ample capital and who are thoroughly trained in this class of work and who make a *specialty* of it?

Terms of subscription can be had by addressing Executive Office

Iron and Hardware Mercantile Agency.

157 Federal Street, BOSTON, MASS.

F. D. BURGESS,

WAUPACA, WIS., writes,

"I advertised a set of Tinner's Tools in your paper and have sold them, and I have received letters from parties wanting them, from all parts of the United States. That goes to show that The American Artisan has a great circulation."

PERFECTION
Ventilating School Room Heater

for Township Schools.

Superior to any made in this country.

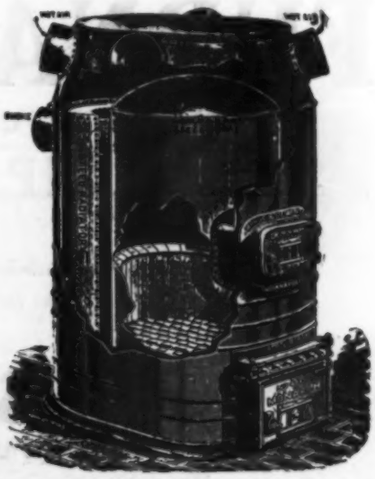
THE MONARCH FURNACE,

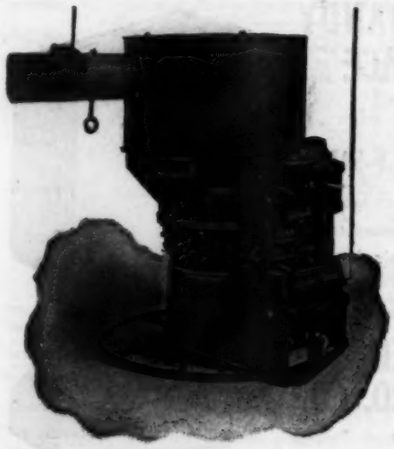
made of heavy annealed steel, has a very large radiating surface, has our patent revolving grate, is easy to operate; is absolutely gas and dust tight, and manufactured by

KRUSE & DEWENTER

427-429 E. Washington St., Indianapolis, Ind.

Send for Catalogue and Price List





Honesty
Reliability
Enterprise

The John Grossius Furnace Co.

409-411 East 8th St., - Cincinnati, Ohio

EMPEROR FURNACES

FOR WOOD

SIMPLE SAFE DURABLE

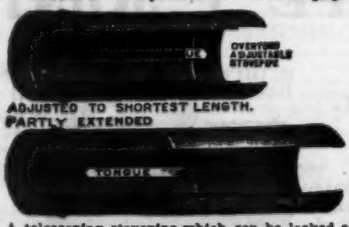
ECONOMICAL IN FUEL

The Best and Cheapest Line of Wood Furnaces. Furnished for either Brick or Galvanized Iron Casing

BERGSTROM STOVE CO.

Send for Catalogue **NEENAH, WIS.**

Overton's Adjustable Stovepipe



A telescoping stovepipe which can be locked at any desired length. Saves cutting the pipe. Anyone can adjust it without tools or trouble. Used with ordinary stovepipe. Your customers need it, especially those living at a distance. Sold by jobbers, or write to

The Dunlap Mfg. Co., Dunlap, Ia.

NOW "GET BUSY"

If you hardware men are not in the Hot Water heating business, WHY NOT? Possibly because you think that the prices are too high for the man in ordinary circumstances to pay.

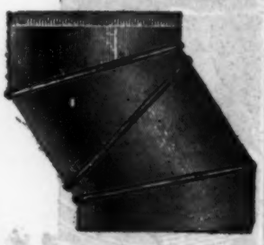
The Phillips Hot Water Heater has knocked out the old time prices on Hot Water Heating. The PHILLIPS is the first Hot Water Heater made that will carry its full rated capacity. It has an honest, net rating.

There are twenty honest and tangible reasons why the dealer can make $20 additional profit and $20 per annum saved to the man that pays the coal bills. Write for our catalogue explaining the reasons why.

GREAT WESTERN HEATER COMPANY, Box 645, DES MOINES, IOWA

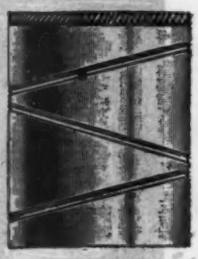
When things aren't going quickly, and you can't use twine;
When cobwebs gather thickly, just drop us a line.

FURNACE DEALERS



Can you afford to make your own

PIPE AND FITTINGS?



Note the following Net Prices:

100 each 8," 9," 10" Reversible Elbows, 4 Pc lc Tin for - $40.20
100 feet each 8," 9," 10" Tin Pipe lc for - - - - - $21.60

Send for Complete Catalogue and Discounts.

Michigan Safety Furnace Pipe Co.

39-41 E. ATWATER STREET, DETROIT, MICH.

Manufacturers of Safety Wall Pipe and Single Pipe and Fittings in both Tin and Galvanized Iron.

CERTAINLY

the best for the dealer, fully guaranteed, requires few repairs and price right, considering quality. Secure the agency now for the **WEIR** all-steel gas and soot consuming **FURNACE.**

THE MEYER FURNACE CO.
PEORIA, ILL.

"THE HANDY FURNACE PIPE"

ABSOLUTELY SAFE

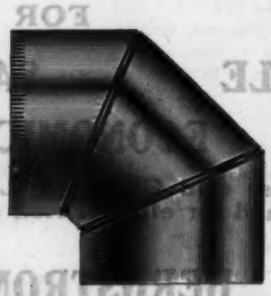
The saving of labor in putting it up makes it the cheapest hot air pipe in the market.

Write for catalog.

F. MEYER & BRO. CO.
PEORIA, ILL.

Absolutely The Best

Stove Pipe and Elbows



Furnace Pipe and Fittings

THE EXCELSIOR STEEL FURNACE CO., 38 W. Monroe Street, **CHICAGO**

Catalogs and Prices on application.

HANDY NESTED STOVE PIPE T JOINT

Saves 90 per cent of room.
Saves 75 per cent of freight.
Does not damage in shipping.
Is stronger and neater than a hand made riveted T.
Is always ready for use.
Fastens together with two bolts.
Is a perfect fitting joint.

Never the rusty and unsightly T Joint usually offered for sale. Always neat, clean and salable. Packed ten 12-inch joints in a crate 7x7 inches and 12 inches long. Weighing 18 lbs. Made in Common, Polished Blue Steel and Planished Iron.

WRITE FOR PRICES AND SAMPLES

KINNE MANUFACTURING CO., - - - Minneapolis, Minn.

BOOKS BY MAIL.

☞ The publisher of THE AMERICAN ARTISAN will take pleasure in supplying Books, of whatever character, at catalogue prices, prepaid by mail, to any address, on receipt of price. The following are in lines especially represented by this journal.

NO BOOKS EXCHANGED

SHEET METAL WORKING.

GRAY'S PERFECT ELBOW PATTERNS.

On heavy blue print paper. From one inch to twenty inches; price $1.00, prepaid. From twenty inches to forty inches, price $1.00, prepaid. From one inch to forty inches, made in 2, 3, 4, 5, 6 7 and 8 pieces with 160 patterns and angle chart showing all angles and degrees of same gotten from 160 patterns, price $2.00, prepaid.

GRAY'S PERFECT SKYLIGHT PATTERNS.

For single pitch, gable and hip skylights. Contains 6 to 8 and 10-inch ventilator patterns and skylight chart, giving the length to cut hip and rafter bars for any size skylight up to 24 feet wide, for ¼ pitch skylights. Full set of patterns and charts. Price, $3.50, prepaid.

TIN, SHEET IRON AND COPPER PLATE WORK.

This is a work of the greatest value to all who work in sheet metal. It describes the method of laying out nearly everything which the metal worker will be called upon to make. Joints, elbows, and all kinds of kitchen utensils are fully described. The work is supplemented by rules for mensuration and hundreds of valuable receipts. By L. J. Blinn. This book contains 296 pages with 109 illustrations, bound in cloth. Price, $2.50.

THE CORNICE WORK MANUAL

Is a 240-page book, illustrated with 184 engravings. It is thoroughly indexed and attractively gotten up, with substantial red cloth covers, embossed in gold. Chapters treat of The Cutters' Bench, Drawing Tools and Angles, Cutters' Tools, The Entabulature, The Reading of Drawings, The Measuring of Cornices, Estimating, Right Angle Mitre Patterns, Bracket Patterns for Panel Sections, Right Angle Return Mitre Patterns, Patterns for a Pediment and Their Development, Patterns for a Segmental Section of a Pediment. Details and Patterns for a Finial, Bracings and Fastenings of Cornices to Buildings, Staging and Scaffolding for Cornice Work, Ornament Stamping Machine, The Management of Ropes and Hoisting Tackle, Plan and Details of a Gable and Horizontal Cornice, Detail of Slating and Slaters' Tools, Details for Horizontal and Raking Mitre Patterns, and the development of Details and Patterns of the Turrets. Price, $3.50.

THE TINSMITHS' PATTERN MANUAL.

A 250-page book, containing over 200 illustrations. By Joe K. Little. This book gives several methods for developing some of the most difficult and complicated patterns. It also devotes considerable attention to patterns of irregular shape and unequal taper. The laying off of patterns by triangulation is shown at length. This book is eminently practical and is recognized as the paramount practical authority in its chosen field. Price, $3.50 per copy.

TINNERS' HELPER AND PATTERN BOOK.

By H. K. Vosburgh. Rules, diagrams, tables, 123 pp, 53 figures. Price, $1.00.

SHEET METAL WORKERS' GUIDE.

A collection of rules and diagrams, for describing the most useful patterns ordinarily required, preceded by chapters on Sheet Metal Work, Soldering, Geometry as applied to Sheet Metal Working. By W. J. E. Crane. Price, postpaid, 60 cents.

100 TINNERS' PATTERNS.

THE AMERICAN ARTISAN Full Size Patterns printed on manilla paper, from which they are readily transferred to heavy sheets and cut out ready for use. Price, sent postpaid, for the full set of 100 patterns, $1.

PATTERN-MAKERS' HANDYBOOK.

A valuable work for the beginner. It is thoroughly practical and has a deservedly large sale. By P. N. Hasluck. Price 50c; 50c edition is paper.

THE WORKSHOP

MANUAL OF RECEIPTS

By Sidney P. Johnston. Contains 241 pages, giving 1,718 receipts for soldering, polishing, painting, hardening, writing on, nickeling, whitening, ungilding, varnishing, turning, testing, cleaning, mending, marbling, lacquering, japanning, cementing, coating, decorating, graining, annealing and amalgamating the various metals. It occupies a field of its own. Price, $3.50.

HINTS FOR PAINTERS, DECORATORS AND PAPER HANGERS.

How to Mix Paints. Price, 25c.

HEATING AND VENTILATION

THE HOUSE WARMING MANUAL.

This handsome book contains the $300.00 essays in THE AMERICAN ARTISAN House Warming Competition for cash prizes. It contains the latest and most practical up-to-date methods of heating a house by hot air, steam or hot water. An invaluable feature is found in the comparative cost of the three systems, and the estimates concerning labor of putting in registers piping, radiators, etc. The man possessing this book need never have any fears about incorrectly estimating a furnace or heating job. 270 pages. Price, $3.50.

HOT WATER MANUAL.

With Information and Suggestions on the best methods of Heating Public, Private and Horticultural Buildings. Treatise on the High and Low Pressure Systems, Bath Apparatus, Hot Water Supply for Public Institutions. Duplicate Boilers, Radiators, Laundry Drying Stoves, Swimming Baths, Turkish Baths. Causes of and Hints to prevent Failure. By Walter Jones. Price, $3.50.

STEAM AND HOT WATER FITTERS' TEXT BOOK

Prepared for the Steam and Hot Water Heating Course at the New York Trade School, with Supplementary Chapters on House Heating, Specifications and Surface Estimating. By Thos. E. McNeil. 140 pages, numerous illustrations and diagrams. 5x7 in., cloth. Price, $1.00.

FURNACE HEATING.

A practical and comprehensive treatise on warming buildings with hot air, with an an appendix on furnace fittings. By Wm. G. Snow; cloth. Price $1.50.

HOT-WATER HEATING, STEAM AND GAS FITTING; ACETYLENE GAS—HOW GENERATED AND HOW USED.

For Plumbers, Steam Fitters, Architects, Builders, Apprentices and Householders. Containing Practical Information of all the Principles Involved in the Construction of Steam, Hot Water, Acetylene Gas Plants and how to properly do Gas Fitting. By Jas. J. Lawler. Revised by Geo. C. Hanchett. Large 12mo., cloth, elegantly illustrated. Price, $2.00.

ADVERTISING

TOWNLEY'S ADS NO. 1.

Comprising 100 Steel Range Advertisements which have been successfully used by one of the leading retail firms in the West. Catch the eye of the reader; drive home the thought and reach the pocketbook. Price, $1.00.

TOWNLEY'S ADS NO. 2.

50 bright pulling hardware ads prepared by a practical hardware dealer for use in local papers. They have brought trade. Price, 50c.

TOWNLEY'S ADS NO. 3.

If you advertise or intend to advertise bicycles you will be interested in the reproduction of the best advertisements of a leading retail firm as they appeared in the papers. Selections from a great number of ads used in a practical way in our retail business are given. 50 ads for 50c.

TOWNLEY'S ADS NO. 4.

50 Warm Air Furnace ads 50c. These ads have "CATCHY HEADLINES," attractive wording and fresh appearance. They increased our sales and will yours. Printed on one side. Copy ready for printer. Save time and worry, and are worth ten times what they cost.

TOWNLEY'S ADS NO. 5.

Townley's 50 Farm Implement and Vehicle Ads. Bright and breezy. Have been used in local papers and have won trade. Price, 50c.

PLUMBING AND DRAINAGE

WATER CLOSETS.

A Historical, Mechanical and Sanitary Treatise, by Glenn Brown, Architect, Associate American Institute of Architects. This book contains over 250 engravings. The drawings are so clear that the distinctive features of every device are easily seen at a glance, and the descriptions are full and thorough. The paramount importance of this department of the construction of houses renders all comment upon the value of such a work unnecessary. Neatly bound in cloth, gilt title. Price, $1.00.

PLUMBING, DRAINAGE AND WATER SUPPLY

and Hot Water Fitting. This work treats of drainage, city wells, external plumbing, internal plumbing and fittings, tapping mains under pressure, ornamental lead work, heating, hot water work, etc. By John Smeaton, C. E. 8vo, 236 pages, 217 illustrations, cloth bound. Price, $3.00.

PRACTICAL HINTS ON JOINT WIPING.

For beginners in plumbing. Price, 25c.

LAWLER'S AMERICAN SANITARY PLUMBING.

For Plumbers, Steam Fitters, Architects, Builders, Apprentices and Householders. By Jas. J. Lawler. Containing practical information on all the principles involved in the Mechanics and Sciences of Plumbing. Everything explained in the most simple language, so that it will be impossible to misunderstand anything. The best illustrated work of the kind ever published, showing many new appliances and devices not illustrated in any other work. Containing 320 pages, large 12mo, cloth. Price, $2.00.

MODERN PLUMBING, STEAM AND HOT WATER HEATING.

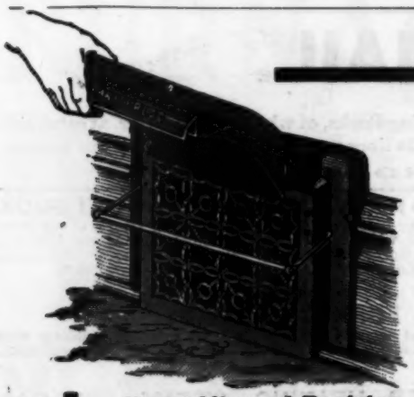
Containing the most modern methods of Plumbing as constructed at the present date. Over 300 illustrations and diagrams, showing the various systems of construction in the heating and ventilating by Steam and Hot Water systems. Six folding inserts, showing waste pipe system in plumbing, one pipe system of both Steam and Hot Water Heating. Overhead system. Fan system of heating and ventilation, and Steam and Hot Water circuits. By Jas. J. Lawler. 400 pages, large octavo. Cloth. Price, $5.00.

COMMERCIAL

THE MANUAL OF BUSINESS.

By S. P. Johnston. Contains 263 pages, and is well indexed. By perusing its pages one can tell at a glance correct business forms for business and legal instruments of all character, and secure authoritative advice on discounts, property laws, contracts, penmanship, postal regulations, debts and collections, bookkeeping, transportation, parliamentary laws, etc. If you strike an unknown business term this book will define it for you. If you want the meaning of a business abreviation refer to this book which also helps in many other ways around your store. The price is $3.50.

DANIEL STERN, PUBLISHER AND BOOKSELLER, 69 DEARBORN STREET, CHICAGO.



Front View of Register

The WATER PAN

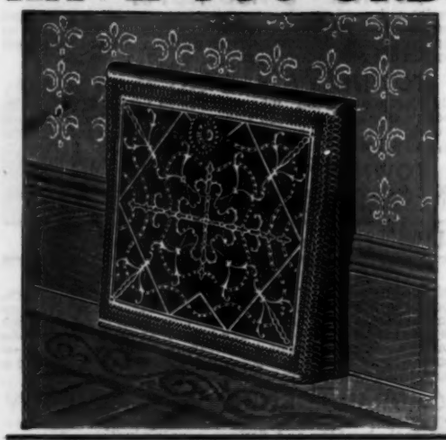
is easily removed from the WATERLOO Side Wall Register—the Register that supplies moisture as well as warm air.

Note the shape of this Water Pan—it is curved, and when in place in the Register not only deflects the heat out into the room—but at the same time, the heat, impinging on the bottom of the Water Pan causes evaporation—and the air supplied is moistened to the proper degree—not parched and dry.

This means that the furniture will not crack—that plants will not die—and above all, that the air will contain the necessary amount of moisture conducive to health and comfort.

Waterloo Register Company
Waterloo, Iowa

HAVE YOU ORDERED YOUR REGISTERS?



Wise dealers are placing their orders for registers **now.**

Write to-day and find out why it will be to your advantage to put in a good stock of **Stowell Side Wall** and **Floor Registers** at once.

STOWELL MFG. & FDRY. CO.,
51-73 Milwaukee Ave., SOUTH MILWAUKEE, WIS.

FERROSTEEL REGISTERS

WE MAKE ALL LINES — *All Cast* / *Modified Steel* / *All Steel*

Quality everlastingly the best
Prices everlastingly the bottom

OUR
- **ALL CAST** Are time tried and worth proven.
- **MODIFIED STEEL** The novelty success of 1904.
- **ALL STEEL** Almost ready and a sure winner.

THE FERROSTEEL CO.. 34 Michigan St., CLEVELAND, OHIO

FURNACE MANUFACTURERS

WHY DO YOU USE CAST IRON CASING RINGS WHEN YOU CAN BUY STEEL ONES?

We make the best that is made. They cost less and are much stronger, lighter, neater and better all around than cast iron rings. Write us for samples and prices.

THE WALWORTH RUN FOUNDRY COMPANY, Cleveland, O.

The Garden City Furnace

The Garden City Furnace is built to supply the demand from a few of our customers, who occasionally have call for a medium priced furnace.

While of more simple construction, the workmanship and materials are of the same high grade as in our Improved Enterprise.

The dome is built of heavy steel and is provided with a cast iron return flue (fitted to either the right or left side), which carries the smoke and gases to the smoke box at the bottom of the furnace inside the casing, before it escapes to the chimney.

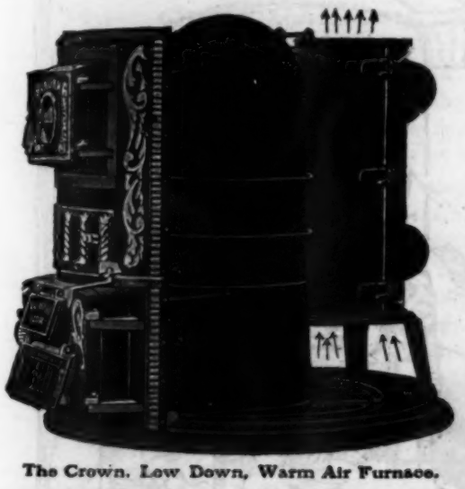
The construction of the Garden City Furnace makes it self cleaning and very economical in the consumption of fuel.

We make the following claims for it:

Freedom from gas and dust—economy of fuel—simplicity of construction—ease of management—great heating capacity and durability.

Our catalogue tells you all—get it.

C. W. Shumway & Sons, Batavia, Ill.



The Crown, Low Down, Warm Air Furnace.

A Dollar Bill

would be worth less than two cents if the United States Treasury didn't stand ready to exchange it for a dollar in gold. Lurid advertisements, all inclusive guarantees are just as valueless unless they have the goods behind them. Oily salesmen are good talkers and good fellows, but the wise dealer waits for the goods. The

CROWN LOW DOWN FURNACE

is the real thing. Get our new furnace book and see our new inducements.

March-Brownback Stove Co.
POTTSTOWN, PA.

MUELLER
WALL REGISTERS

Simple
Durable
Quickest Installed
Greatest Capacity

We also make a complete line of Floor Registers. GET OUR PRICES.

L. J. MUELLER FURNACE CO.
191 REED STREET Established 1857 MILWAUKEE, WIS.

W. J. BINKLEY, BELLEVILLE, KAN.
WRITES:

"I gain much valuable information from THE AMERICAN ARTISAN and would not think of running a tinshop without it."

ROUND OAK
Standard of America

It is the magazine and double fire pot in the Round Oak Heating Stove that make it so very successful and satisfactory when *hard coal* is the fuel. Of course, when a purchaser wants a base burner, it's all up with the Round Oak. But when a stove for business is desired, and mica doors and nickel plate don't cut any figure, the famous Round Oak for hard coal—as a surface burner or with the magazine—is simply incomparable. Our customers are requested to guarantee it to the limit. Full information sent on request.

Estate of

P. D. BECKWITH

Fred E. Lee, Manager

Dowagiac Mich.

MAKERS OF GOOD GOODS ONLY

Fritz—"Gentlemen, I wish every member of every Hardware Association in America, health, happiness and prosperity.

ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

TERMS OF SUBSCRIPTION IN THE UNITED STATES, THEIR POSSESSIONS, AND CANADA, (Invariably in advance): ONE YEAR, POSTAGE PAID, $2.00.
IN FOREIGN COUNTRIES EXCEPT CANADA, ONE YEAR, POSTAGE PAID, $4.00.
Address all Letters, communications and remittances to

DANIEL STERN, PUBLISHER AND PROPRIETOR,
69 DEARBORN STREET, CHICAGO, ILL.

Entered at the Chicago Post Office as Second Class Matter.
THIS PAPER IS A MEMBER OF THE CHICAGO TRADE PRESS ASSOCIATION.

CHICAGO, APRIL 15, 1905.

Hardware Associations Win Victory.

THE different retail hardware associations of the country are to be congratulated upon the very decisive victory over catalogue houses which a decision handed down by the Washington postoffice officials carries with it.

For some time the mail order houses have been making arrangements to distribute their catalogues through the residents of the towns, in which they expect to find customers. A prize is usually offered to the person who agrees to obtain sufficient results for the catalogue house by distributing twenty-five or fifty catalogues. This method is, of course, cheaper than sending the catalogues through the mails, and it is especially cheap in view of the fact that the mail order houses themselves are the ultimate judges as to whether the distributor deserves a prize or whether he has not obtained sufficient results.

The method of distribution was usually through the aid of the rural mail boxes, which are very often stationed quite a distance from the house, thus saving a large amount of walking on the part of the carrier.

Rural carriers and hardware associations, however, quickly discovered their ruse and reported the matter to the federal officials. The postoffice department immediately took the matter up and decided that mail boxes were intended for mail and only mail, and that the use of rural mail boxes for purposes unofficial was contrary to the letter and spirit of the law. They then sent out the following notice to postmasters in rural free delivery districts:

Sir: Owing to the numerous complaints which are being made to the department that advertising circulars and other mailable matter, postage on which has not been prepaid, are being placed in rural letter boxes intended for persons who receive mail through such boxes, and in order that there may be no misunderstanding regarding the proper dispositon of such matter, you are hereby advised that patrons' boxes erected on rural routes are intended exclusively for the reception of matter regularly in the mails, for delivery or dispatch through the mails, and "mailable" articles which carriers find deposited in such mail boxes on their routes are properly "in the mails," and subject to all the rules regulating mail matter, including the payment of postage thereon.

You will promptly and fully instruct the rural carriers attached to your office that all mailable mater found in rural letter boxes without the proper postage affixed or money provided sufficient to purchase same should be taken to the initial post office to be held for postage.

Inasmuch, however, as the rural mail boxes are owned by individuals and not by the government, the question was raised as to whether the postoffice officials were right in deciding that extraneous matter could not be deposited in these boxes legally. The matter was left to the action of the assistant attorney-general of the postoffice department, who affirmed the order sent out to the rural postmasters in every point. The following excerpts are included in his report:

When a rural letter box is erected there is an implied agreement between the person erecting it and the postmaster general that it shall be used exclusively for the purpose of transmitting and receiving mail matter. Neither the patron by whom the box is erected nor any other person is entitled to deposit therein articles or matter of any kind except such as is intended to be dispatched or delivered by mail. In the very nature of things there can be no divided control or authority over the box such as would authorize its use for purposes other than those of the mails.

No private individual, company or association has authority to place advertising circulars, merchandise or other articles of any kind within rural letter boxes except for the purpose of dispatch of mail, and when so deposited the matter must be properly prepaid by stamps affixed.

This decision was primarily the result of the watchfulness of the officers of the various hardware associations throughout the country. These gentlemen reported the matter to the proper authorities as soon as discovered, and not only that but they followed it right up and saw that instant action was taken. This is another evidence of the great value of the retail hardware association.

GOVERNMENT statistics announce the imports in the United States during February were the greatest ever recorded. The showing made during this month was especially surprising, in that February is not only the shortest month in the year, because of the small number of actual days, but is also curtailed still more for business purposes, by the two national holidays, Washington's and Lincoln's birthdays.

It is to be noted in connection with this growth in imports that the luxuries tea, tobacco, silks, precious stones, etc., have not increased in volume to the great extent that has been exhibited by the more staple commodities of life. In fact, there has been an actual decrease in all of the luxuries except diamonds. A great increase is to be noted in the importation of metals and food stuffs.

HARDWARE reports from all sections of the country indicate that the present season will be extremely favorable to manufacturer, jobber and retailer. We can learn of not a single line of ware or a single section of the country which can be labeled quiet.

IT is said that a large mill for the manufacture of nails and screws of all kinds is about to be established in Mexico City, Mexico.

RANDOM SKETCHES.

BY SIDNEY ARNOLD.

THE days of mine host, the sign of the "White Bull" and the small beer, are gone, never to come again. Instead of—

"A handsome hostess, merry host,
A pot of ale and now a toast,
Tobacco and a good log fire"—

instead of these features at festive reunions, the modern dictum calls for a dress suit, an immaculate shirt, an English waiter and champagne from the plains of Picardy. Instead of the merry quips and the hearty laugh, we have the polished epigram and the set speech. Instead of ingenuousness we have formality.

All well and good. I have no kick coming and others seem to be satisfied. The times have changed and we have changed with them, Sidney Arnold included.

A ten-course dinner, an appetizing canape with a fat partridge, slippery wine and pregnant speeches are fine—I'd be the last to decry them. I like prompt service, the goods of life and the wealth of the brain. Moreover, I have a pretty firm conviction that the gatherings of old around "the groaning board," with ale in pewter pots, veal pie and the buxom wench may be properly interpreted as having been attended by a greasy table, flat beer, tough meat and an ugly hag. Age has bedimmed the vulgarity and the unattractiveness of these mediaeval occasions, leaving only their brighter side, and this greatly exaggerated.

I am commencing to feel, however, that the banquet with all the concomitant ceremonies and conventions can be overdone at times. I have gone to a good many hardware conventions and I'll have to confess that the banquets at some of these gatherings are more tedious than Deacon Savesoul's most protracted sermon. The spontaneity, the glamor, the originality and novelty of these banquets have for the most part entirely worn off.

Several friends have spoken to me in regard to this matter. They agree heartily. There is a growing demand for a reversal of form and a partial return to the unofficial but spontaneous gatherings of old. The present banquets are much too cumbersome and unwieldy to be handled well by the wisest of managers. There are too many present. The service is consequently poor, the delectables cold and the guests grouchy.

The banquet held at Atlanta last year is a good (?) example. Here we had an able management, a whole-hearted purpose and the most unselfish motives, yet the banquet was a most dismal failure, through the fault of the hotel. We are glad to say that this fiasco met with a most prompt and gracious action on the part of the committee.

The magnificent complimentary banquets held at Pittsburg and Cleveland were essentially different, in that they were given by local members. The hotel managers were prepared. The committees did not bite off more than they could comfortably chew. The arrangements were most delightfully complete and efficient in every way. The hotel managers were accommodating and competent. The local committees were efficient and unselfish. Moreover, the speeches were of an order to make one forget the inner man in the satisfaction of the intellectual part of his make-up. No private ends were served in the drawing up of the clientele of speakers and each was selected solely on his merits.

But take the banquets of the hardware jobbers held at Atlantic City for the last two years, and conducted by that wonderful mass of inefficiency and self-sufficiency, T. James Fernley. Here, everybody will remember, the hotel was inadequate and the arrangement committee preposterous. The banquet of 1903 was bad; that of 1904 worse. The guests were not only made to pay a hard-earned V for icy soup, tough fillet mignon and a dash of chilled coffee, but were made to bask in silence under the attempted oratorical flights of a bunch of execrable speakers, whose selection was guided by favoritism and the fact that his majesty, the honorable T. James, was indebted in other ways to these same gentlemen.

And what shall we say of the conduct of this apology for a man subsequent to the banquet. The hotel lobby was crowded. Some one ventured to remonstrate with Fernley regarding the very poor service. Several scores of guests in the corridor were startled to hear him exclaim in a loud, angry voice: *"Anybody who says this banquet was not first-class is a damn fool."* "But how about the ladies, Mr. Fernley?" *"They're damn fools, too,"* was the reply of this gallant gentleman.

Let us accept the epithet cheerfully. Let us divide the world into halves. Let us place in one half the ladies and their escorts who attended this banquet. Let us label them *Fools.* In the other half, we see T. James, majestic in his isolation, his breast heaving with pride, and above his transcendent figure, enshrined in a halo of glory, the word: *Autocrat.*

It may be best, however, to pass over these unpleasantries and to try to avoid their recurrence in the future. I don't believe that a single, sane, able-bodied member wants a banquet at the hardware conventions to be held at Hot Springs in June and in Washington in November. If such a step were necessary in order to eliminate the customary four hours' torture, I know of about twenty prominent members who would gladly have contributed for the maintenance of Mr. Fernley's family at the Rudolf for the past two summers or at Washington during the coming season.

The arrangements are now being made for the approaching hardware conventions. *Now* is the time to voice your opinion. Why not cut out the dreadfully cumbersome and unwieldy table d'hote? Why not return to the old system of informal hops and local entertainment committees? Why not break away from a function which is fatiguing to the managers and disagreeable to the guests?

* * *

The other day at Minden, La., Mr. Luther Wade, representative of The Peters Cartridge Company, Cincinnati, O., went to the traps with the local shooters and showed them how to break a few targets.

He scored 96 out of 100, which is a fair sample of the work Mr. Wade is doing this spring.

* * *

I AM indebted to J. H. Vawter of Salem, Ill., for the following very interesting and amusing letter:

"I heard of a very funny occurrence to-day. My fellow hardware dealer was approached by a committee soliciting money for a country church. He told them when they were to build to come around and he would contribute some hardware, but they told him they wanted the money and would contract the hardware later. So he gave them a very liberal donation supposing he would get to sell a nice bill of hardware. It run along for some time and hearing nothing from them he inquired one day of another member of the church when they were going to build. He told him the church was done. He ventured to ask him where they purchased their hardware. He told him they sent to Sears & Roebuck for it. The next church begging committee from the country will probably not get a large donation from him. This is a good illustration of the average farmer's idea of business."

I agree with Mr. Vawter. It is a good illustration of the average farmer's idea of business. But I think Mr. Vawter will agree with me in confessing that perhaps his fellow hardware dealer exhibited just a little too much of the pacific methods, which belong rightly to the more saintly of mortals, and too little of the business astuteness which buys automobiles. Let us all hope and believe that the newly installed hardware will prove as unsatisfactory as such hardware usually does, and that the "fellow hardware dealer" will demand a written order from the begging committee with his next donation.

* * *

SOME weeks ago I took a chance in these columns at the "early to bed and early to rise" crank, who believes in ultimate, certain success for the man who never takes a glass of beer, who hates cigar smoke, who knows all about the Biblical heroes and whose mother greets him every evening at the garden gate. I said it then, I'll say it now and forever, that something more than good habits, common sense, energy, carefulness and economy are necessary to business success. These qualities are good, their possession is valuable—I won't deny it for one second—but something more is necessary to shove a man very far above his fellows. That something more is shrewdness, keenness, farsightedness, the ability to judge the future by the past and your own fate by the fate of others.

Take a case. A and B are young men starting out in life in the same town. Both are honest, hardy, enterprising, ambitious, economical. They both go through the apprenticeship stage and then each starts up on his own hook.

Both of them discounted every bill. They haggled over every charge item. They got the lowest possible rates and paid the lowest possible salaries. Both worked overtime and each did the work of two. Both were careful in buying. They used vast intelligence in the selection of goods. They kept good hours and never got drunk.

"When you're in Rome, do as the Romans do." When you're in business, do as the business men do. Treat others as they treat you. Expect as much of others as they expect of you.

These are good axioms and B realized that fact. He noticed that at the end of the "thirty days net" he usually got a peremptory note if he hadn't paid up. He noticed that his creditors didn't take any chances and he decided not to take any himself. Every creditor he formed had to make good in Dun and Bradstreet. Not only that, but B made personal inquiries and kept himself posted constantly as to the public and private life of his creditors. He insisted upon "pay up or sell out" when the notes or accounts fell due.

A was of a different mold. He pushed the sale of his output. He encouraged outstanding accounts. He had a large working capital and thought a free, easy policy with a large number of sales was better than stringent supervision with a small number.

Suddenly a panic struck the business world. Banks failed. Mills shut up. Money got tight and one of A's biggest creditors went to the wall. A was forced to take up the insolvent's notes. A's creditors heard of it. They were in a bad way themselves. They jumped over each other in demanding payment for A's overdue accounts and A was forced into bankruptcy.

When the panic struck B's section of the country, he quietly gathered in his outstanding credits and held close for a couple of years. When the crisis blew over, he was stronger than ever.

A to-day tends a soda fountain in the summer and waits on table in the winter. B is one of the largest and wealthiest hardware retailers in the country. It's a case of shrewdness.

* * *

BEERS, SAWBUCK & Co., Chicago, furnishers to his majesty, the Assinine citizen, and incidentally the largest catalogue house in the world, employ about 1,000 order fillers at eight dollars per week. These are the men who look after the wants of the customers. These are the men whose efforts and energy are supposed to forestall the wants of buyers. These are the fellows to whose judgment and discretion is often left the brand of roofing to be bought, the size of axe head, or the selection of a trunk lock. And they are often 3,000 miles away from the buyer. Not much chance for a kick, is there? Not much chance for good judgment, either.

* * *

Did you ever order fencing by the ton?
Did you ever keep your jobber on the run?
Did the prices take a slump?
Did you swallow a big lump?
Did you jump?

Did you ever think that stoves were in demand?
Did you order many carloads of one brand?
Did the people wink one eye?
Did they never come near-by?
Did you sigh?

Better read our trade review:
Falling markets you'll eschew;
You won't buy when sales are few;
No, not you.

* * *

FROM the Deadwood, Arkansas, "News," I learn that Pat Flanerty, the hardware dealer, had his buggy whip stolen.

News Siftings

MEETINGS.

Stove Founders' National Defense Association, Chicago, May 9.

National Association of Stove Manufacturers, Chicago, May 10, 11.

Arkansas Retail Hardware Dealers' Association—Little Rock, in June.

Southern Hardware Jobbers' Association—Virginia Hot Springs, Va., June 6-9. Headquarters, New Homestead Hotel.

American Hardware Manufacturers' Association—Virginia Hot Springs, June 6-9. Headquarters, New Homestead Hotel.

Pacific Coast Hardware & Metal Association—Monterey, Cal., June 14. Headquarters, Hotel Del Monte.

Rhode Island Hardware Dealers' Association—June 22.

American Society of Heating and Ventilating Engineers', Chicago, July 7 and 8.

Retail Hardware Implement & Vehicle Dealers' Association of Oklahoma—Oklahoma City, July 10.

Michigan Retail Hardware Dealers' Association—Saginaw, August 9 and 10.

National Hardware Association—Washington, D. C., November 15, 16, 17.

American Hardware Manufacturers' Association—Washington, D. C., Nov. 15, 16, 17.

Washington Hardware Association—Seattle, Nov. 17.

Arthur C. Whitman has been appointed receiver of the Columbus Stove Co., Columbus, O.

D. F. Valentine will soon engage in the manufacture of a newly patented gas stove at Fort Wayne, Ind.

Eveleth Bros. have disposed of their stove and tin ware business to W. G. Talmage at Wilmington, O.

Earl V. Coueston, L. A. Loychot, W. G. Saxton, W. R. Zollinger and Agnes H. Coueston are the incorporators of the Canton Stove Mfg. Co., Canton, O., capitalized at $20,000.

Findlay Bros., Almonte, Ont., are erecting another large three-story wing to their extensive stove plant. The new building will be utilized as a store house and shipping department and will cover an area of 60x150 feet.

The Wm. T. Dust Co., 32-34 Macomb street, Detroit, Mich., are makers, dealers and jobbers in repairs for all stoves, ranges and frunaces. They are also distributors of pipe dampers, mica, stove rods, paste, stove putty, stove knobs, etc.

Henry Thole is president, Thos. J. Phillips is secretary-treasurer and John T. Ashcraft is attorney for the Thole-Phillips Mfg. Co., Florence, Ala., capitalized at $50,000 for the manufacture of stoves. This concern is the successor of the Thole Stove Mfg. Co.

The employes of the Ohio Stove Co., Portsmouth, O., struck for various reasons on April 1st. The officials believe that unless a settlement is arrived at in the very near future, including total submissions on the part of the strikers, their plant will soon be operated entirely by non-union mounters.

Kramer Bros. Foundry Co., Dayton, O., the largest manufacturers of stove carriers in the United States, are remarkably well pleased with the large number of orders recently received for their "Karry-all Stove Karrier," Gem adjustable stove carrier and the Dayton stove carrier. These carriers adjust from 12 to 24 inches, and have malleable iron castings. They are made of heavy harness leather, and will carry any style of stove or range made.

The Toledo Stove & Range Co., Toledo, O., announce that they manufacture ranges of every description to meet with the wishes of all classes of people, and a special range for jobbing purposes. They believe they have the best line of oaks on the market for the money. Their line includes hot blasts, base burners, steel ranges, cast ranges, steel cooks, cast cooks and has been christened The Gem.

We are given to understand that the genuine Round Oak heating stove made by the Estate of P. D. Beckwith, Dowagiac, Michigan, is the most popular and has the largest sale of any stove known. It is made with the famous one-piece, air-tight bottom and absent ash pan. It is claimed to hold fire all night and all day and to burn perfectly all kinds and degrees of fuel. The makers claim that it is nearer to being a perfect heating stove than any other known to the trade.

Daniel B. Rock, Postoffice Box 1132, Fairfield, Adams County, Pa., announces that he has invented Rock's improved pot and pan holder. During this gentleman's long experience as a tinsmith he discovered that there is a great objection to ringed knob covers. He has invented a cover which is cut out, handle and all in one piece. Retinning solders it completely and makes it ready for use. He will be pleased to hear from stamping companies who might wish to make use of this invention.

NEWPORT SAND.

While the Newport Sand Bank Co. of Newport, Ky., do not claim to any especial distinction for patriotism, still, they are perhaps more so than most manufacturers in that they are introducing their very fine brands of molding sand into foreign countries, notably Denmark, South America, Mexico and Canada.

This company controls more than 400 acres in various parts of this country, including large deposits of high grade molding sand. The Newport No. 5 sand is said to be the most popular and the most exhaustless. The business outlook for molding sand is said to be especially promising for American producers.

This sand when used by molders is adapted for the finest castings with little or no facing, and may be employed just as nature produced it. This firm announce that quality, quantity, variety and unlimited shipping capacity are their long suit. They received the highest award at the St. Louis World's Fair.

Mr. J. Frank Dye is the founder of this company, which he claims to be the oldest sand shipping company in existence. It owns fields of great magnitude, containing many different flinds of the highest quality of molding sand. The shipping facilities are very ample.

Catalogues will be mailed to all interested on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

BECKWITH BOOMER BUYS BUBBLE.

A hundred years ago a carriage with a couple of horses was considered the summum bonum to be had during one's existence on this planet. A man with a carriage was considered *the* man above all other men. He was the whole thing. Fifty years ago the lucky wight, who could talk to his cook through a speaking tube, was to be accounted supremely happy. Twenty-five years ago the man, who was so abundantly endowed with the filth "which moth and rust doth corrupt" as to be really able to own a telephone, was so singular and lonely in his good fortune that he had no one with whom to converse by the aid of his treasure. To-day the automobile is the summum bonum. If a man owns an automobile he may feel that he has attained the most beneficent of life's baubles, that he is blessed above all other mortals.

We regret to say that we know of but one hardware merchant upon whom the bestower of things earthly has deigned to shower a "bubble." This gentleman is H. J. Flock, and the gods found him at Sterling, Illinois. Besides possessing very shrewd and sound business principles, Mr. Flock is imbued with an exceptionally modest nature. Rather than acknowledge that his financial success is to be attributed to keen business enterprise, this model of humanity announces that the extra pennies which he salted away for the purchase of this automobile, were increased and multiplied for the most part solely through the good selling and paying properties of Round Oak stoves, ranges and furnaces, made by the Estate of P. D. Beckwith at Dowagiac, Michigan.

The accompanying illustration shows Mr. Flock delivering a Round Oak Chief steel range to one of his many customers. It is to be hoped that the famous range will reach its destination without the mishap which usually befalls these vehicles of transportation, and that the proceeds derived from the sales of these wares by other merchants will enable them likewise to ride in the lap of luxury.

A Decided Innovation.

A HANDSOME, INCLUSIVE CATALOGUE.

The Born Steel Range Co., 1984-1998 Pearl St., Cleveland, O., are sending to their friends in the trade their catalogue No. 12, which has just been issued for the year 1905. This firm manufacture a most complete line of steel ranges, steel plate French ranges, broilers, carving and steam tables, pastry ovens, coffee and tea urns, steam and gas appliances, complete cooking outfits, laundry and tailor stoves, water heaters, etc. Their catalogue No. 12 contains their line of cooking appliances and furnishings for the culinary department of hotels, restaurants and institutions. It represents these lines with their latest additions and improvements, and care has been taken to make it complete and accurate.

The Born steel plate French range, which is at present meeting with a remarkable sale, is said to be different from all others. The steel body is doubly thick and interlined with asbestos boards on the ends and other portions directly exposed to the fire, also in the bottom. Its substantial construction is said to diminish radiation, preserve an even temperature, to cause the oven to heat quickly, and reduce fuel expenses. With other steel ranges, it is claimed to be a common thing for the oven bottom to warp, and the repairs for this warping are said to be expensive and unsatisfactory. The patent oven bottom of the Born range, besides being an extra heavy plate of smooth level steel, is guaranteed against warping and is removable. The oven doors have white malleable iron frames, polished and plated, with projections on the lower corners forming hinges, also malleable handles, latches and malleable drop braces to support them when open.

It is claimed that since malleable iron is almost

proof against breakage, the doors will safely stand the hardest usage. The arrangement of the flues, drafts, dampers, etc., is very simple, and such as to give the most satisfactory results in cooking, baking and roasting. In the bottom flue under each oven is placed an adjustable slide, which is said to be a valuable feature in suiting the range to different fuels and chimneys.

Another of the earmarks of this range is the warming closet with patent rolled doors. This firm manufacture shelves and single closets for all sizes, and double closets on double oven sizes are said to be distinctive. The patent doors are made of planished iron stamped with an ornamental panel to make them rigid, and are so adjusted as to turn up and back inside the closet entirely out of the way when opened. This large closet, which gets thoroughly heated from the range, is very convenient for keeping dishes hot and often saves the expense of a separate warmer.

This handsome catalogue, which is sure to be of interest to all dealers in cooking appliances, will be forwarded to the trade upon application. When writing for same, kindly add, "Saw it in THE AMERICAN ARTISAN."

A NEW HEATER.

The Dangler Stove Co., Cleveland, O., and the Ringen Stove Co., St. Louis, Mo., divisions of the American Stove Co., are sales agents for the East and West, respectively, of the "Quick Steel" heaters. These heaters are an innovation and are made for coal. The top, bottom and body are made entirely of steel. The manufacturers claim that they are lighter and stronger than stoves having these large parts made of cast iron,—that they save breakage and reduce the freight charges. The steel parts are made by machinery and dies and are absolutely alike and interchangeable. The steel top and bottom are of the same material as the body. Their expansion and contraction are alike, and therefore, they are air tight and remain so. It is claimed that these heaters heat more quickly, because there is less metal to heat than if they had cast iron top and bottom. The fire pot contains air slots running up inside, and consequently tends to keep a live fire on the outside of the coal, thus radiating the heat rapidly. This heater is made in four sizes.

The manufacturers also make an entirely new and complete line of air tight wood heaters, which they eulogize as "the prettiest, air tightest, and most select line ever brought out."

MILLER RANGES.

The Wm. Miller Range & Furnace Co., Postoffice Square, Cincinnati, O., manufacturers of the famous Miller-Monitor wrought steel ranges adapted for families, hotels, restaurants, steamboats, dining cars, railroad camps, boarding houses, army posts, public institutions, etc., are decidedly well pleased by the hearty reception with which their goods are meeting at the hands of the hardware dealers. Their line includes Miller's Gem, a medium priced range, the construction of which is on the same general principle, and which receives, it is said, the same careful attention in its make-up as their high priced ranges; the Puritan, a low priced range, which, it is said, cannot be excelled for the price by any range offered the trade, and the Miller-Monitor ranges with patent double casing, the patent double center, regulating dampers, patented drop feed door, removable duplex grate, double lever handle and gravity latch and ventilated oven. This firm also manufacture steam tables, broilers, carving tables, tea and coffee urns, portable ovens, waffle stoves, laundry stoves, water heaters, steam plate warmers, steam jacket kettles, chophouse broilers and all kinds of hotel and kitchen utensils for culinary purposes.

PLEASANT HOME STOVES AND RANGES.

The Western Stove Works, 100-116 Front street, Peoria, Ill., are manufacturers of a very desirable line of Pleasant Home ranges and cook stoves and Pleasant Home heaters for hard or soft coal. The design and ornamentation of Pleasant Home steel ranges are said to be of a very superior order. These ranges are made of the best planished steel, by the most skilled workmen. Their cast range is claimed to have a flue construction which requires very little fuel and which is one of the best selling features to be found on any cast range on the market.

The Pleasant Home square base heater is one of the very best of their many different grades. These stoves are made in all styles and sizes, and are claimed to give entire satisfaction. This company will now enlarge their operations, as their capital stock has been increased and their personnel augmented by the advent of H. W. Kroos and his son, Elwood R. Kroos, who were formerly connected with H. Sandmeyer & Co., retailers of hardware at Peoria, Ill. The store of H. Sandmeyer & Co. was completely destroyed by fire recently, and since that time the father and son have taken an extensive financial interest in the stove works.

Elwood R. Kroos will be sales manager, and although he announces his position as not very exacting because of the very desirable selling features of the Pleasant Home stoves and ranges, still it is his ambition to be the sales manager for one of the largest stove foundries in the country, and to realize this hope he is devoting his entire time and energy in the interests of the foundry.

DEATH OF F. S. WELLER.

The trade will learn with deep regret of the death of F. S. Weller, former president and treasurer of the Weller Pattern Co., 1110-1114 State St., Quincy, Ill. Mr. Weller, whose death occurred on March 31st, was born near Amberg, Bavaria, on Oct. 27th, 1849. He came to this country when quite a young man and settled in Troy, N. Y., where he learned the trade of stove pattern maker. About twenty-five years ago he left Troy and went to Quincy, Ill., where he successfully conducted a pattern shop for about twenty years, after which he and several of his employes incorporated the Weller Pattern Co., of which he was president until his death. He was very popular both with his employes and his many customers.

The Hardware Record.

American Hardware Mnfs. Assn.
Pres., J. C. Birge, St. Louis, Mo.
Vice-Pres., C. W. Asbury, Philadelphia, Pa.; Geo. W. Corbin, New Britain, Conn.: Henry B. Lupton, Pittsburgh, Pa.
Sec.-Treas., F. D. Mitchell, 309 Broadway, New York.
Ex. Com., W. M. Taussig, New York; Sam'l Disston, Philadelphia; Wm. H. Hays, Pittsburgh; John E. Harbster, Reading; Geo. P. Hart, New Britain; W. M. Pratt, Greenfield, Mass.; E. G. Buckwell, Cleveland; E. B. Pike, Pike, N. H.

Arkansas Retail Hdw. Dealers' Assn
Pres., Hamp Williams, Hot Springs.
1st. V. P., T. B. Stewart, Newport.
2d V. P., R. P. Graham, Fordyce.
Sec.-Treas., C. E. Taylor, Little Rock.
Ex. Com., J. E. Maxey, Ozark; J. A. Plummer, Marianna; R. P. Allen, Van Buren; J. L. Davis, Magnolia, one year each; Frank B. Gregg, Little Rock; C. T. Rosenthal, Batesville; J. M. Pittman, Prescott, two years each.

Chicago Retail Hdw. Dealers' Assn.
Pres., H. E. Gnadt.
V.-P., W. B. Costello.
Sec., G. R. Lott.
Collector, John Hora.
Treas. J. L. Smith.

Indiana Retail Hdw. Dealers' Assn.
Pres., A. N. Shidler, South Bend.
1st V.-P., Chas. Frame, North Manchester.
2nd V.-P., Walter B. Creed, New Albany.
Sec.-Treas. M. L. Corey, Argos.
Ex. Com., W. P. Lewis, New Albany; Chas. E. Hall, Indianapolis; J. L. Fulton, Portland

Illinois Retail Hdw. Dealers' Assn.
Pres., Frank B. McKenney, Rockford.
V.-P., F. Giessing, E. St. Louis.
Sec., L. Nish, Elgin.
Treas., Geo. A. Englehardt, Chicago.
Ex. Com., Frank B. McKenney, Rockford. L. Nish, Elgin; Geo. A. Engelhardt, Chicago; Chas. Johnson, Peoria; F. F. Porter, Chicago; Wm. Bittel, Peoria; H. G. Cormick, Centralia; L. D. Ray, Belvidere; W. T. Gormley, Chicago.

Indian Territory Retail Hdw. Assn.
Pres., A. L. Severance, Durant.
1st V.-P., Geo. W. Mowbray, Tulsa
2nd V.-P., W. J. Pettee, Oklahoma City.
Secy., W. G. Johnston, Oklahoma City.

The Inland Empire Implement and Hardware Dealers' Association.
Pres., O. L. Butterfield, Muscow, Idaho.
1st V.-P., E. E. Lucas, Davenport, Wash.
2d V.-P., Dana Childs, Spokane, Wash.
Sec., E. W. Ebenson, Spokane, Wash.
Treas., J. A. Fridaker, Spokane, Wash.

Iowa Retail Hdw. Dealers' Assn.
Pres., H. S. Vincent, Ft. Dodge.
V.-P., C. E. Haas, LeMars.
Sec., A. R. Sale, Mason City.
Ex. Com., T. A. Nichols, Burlington; D. S. Stauffer, Iowa City; E. C. Moore, Waverly; S. R. Miles, Mason City; U. S. Johnston, Tama; R. J. Breckenridge, Brooklyn; C. Clifford, Des Moines; F. C. Bollinger, Afton; W. J. Langfitt, Harlan.

Kentucky Retail Hardware and Stove Dealers' Association.
Pres., J. C. Frederick, Owenboro.
1st V.-P., U. S. Shacklett, Fulton.
2nd V.-P., George W. Buck, Louisville.
Treas., J. Steitler, Owensboro.
Sec., John R. Sower, Frankfort.

Michigan Hardware Association.
Pres., J. B. Sperry, Port Huron.
V.-P., Geo. B. M. Towner, Muskegon.
Treas., Henry C. Weber, Detroit.
Sec., Austin J. Scott, Marine City.
Ex-Com., S. Winchester, Jackson; J. G. Patterson, Detroit; E. G. Standart, Holland; E. S. Roe, Buchanan; John Popp, Saginaw; W. P. Culver, Portland; K. S. Judson, Grand Rapids; J. H. Whitney, Merrill; E. J. Morgan, Cadillac; T. Frank Ireland, Belding.

Minnesota Retail Hardware Assn.
Pres., A. T. Stebbins, Rochester
V.-P., George Evenson, St. Peter.
Sec., M. S. Matthews, Minneapolis.
Treas., G. F. Duerre, Plain View.
Ex-Com., W. H. Tomlinson, Le Sueur; J. H. Smith, Minneapolis; H. R. Schroeder, St. Paul; F. W. Lucas, Litchfield; W. T. Cowing, Alexandria; C. H. Casey, Jordan; Louis Gewalt, Breckenridge; Chas. F. Ladner, St. Cloud; J. F. McGuire, St. Paul; A. T. Stebbins, Rochester; Geo. M. Evenson St. Peter.

Missouri Retail Hardware Dealers' Association.
Pres., Tayler Frier, Louisiana.
V.-P., Wm. H. Hahn, St. Louis.
Sec.-Treas., Frederick Neudorff, St. Joseph.
Ex. Com., F. A. Kannsteiner, St. Louis; W. C. Shoop, Richmond; O. W. Johnston, Marshall.

National Hardware Association.
Pres., S. A. Bigelow, Boston.
Vice-Pres., John C. Koch, Milwaukee.
2nd Vice-Pres., Brace Hayden, San Francisco.
Sec.-Treas., T. James Fernley, Philadelphia.
Ex. Com., R. M. Dudley, Nashville; W. S. Wright, Omaha; W. D. Taylor, Cleveland; F. Barker, Elmira, N. Y; J. D. Moore, Birmingham, Ala; P. E. Strauss, Boston.

Nebraska Retail Hdw. Dealers' Assn.
Pres., Max Uhlig, Holdrege.
1st V.-P., Albert Degner, Norfolk
2d V.-P., Frank Haecker, Friend.
3d V.-P., M. A. Hargleroad, Holstein.
Sec., Frank K. Barr, Lincoln.
Treas., H. J. Hall, Lincoln.

National Retail Hdw. Association.
Pres., W. P. Bogardus, Mt. Vernon, Ohio.
1st V.-P., E. M. Bush, Evansville, Ind.
2d V.-P., H. F. Emery, Fargo, N.D.
Sec., M. L. Corey, Argos, Ind.
Treas., A. T. Stebbins, Rochester, Minn.
Ex. Com., T. Frank Ireland, Belding, Mich.; S. R. Miles, Mason City, Ia.; A. H. Abbe, New Britain, Conn.; Frank A. Bare, Mansfield, O; C. H. Williams, Streator, Ill.

N. Dakota Retail Hdw. Dealers' Assn.
Pres., H. F. Emery, Fargo.
1st V. P., Martin Jacobson, Minot.
2d V.-P., H. H. Walther, Casselton.
3rd V.-P., O. I. Butler.
Sec., C. N. Barnes, Grand Forks.
Treas., H. T. Helgesen Milton.
Members Ex. Com., W. R. McIntosh, Bottineau; E. E. Elliott, Sanborn; W. H. Pinkerton, Lakota.

Ohio Hardware Association.
Pres., John F. Baker, Dayton.
V.-P., C. S. Johnson, Barberton.
Cor. Sec., Frank A. Bare, Mansfield.
Fin. Sec., A. L. Shearer, Dayton.
Treas., L. F. Stahler, Waverly.
Ex. Com., John Kramer Dayton, C. W. Jewell, Utica; W. S Perry, Zanesville; Frank W. Ingalls, Byran Will M. Crumrine, Salem; A. Boebinger, Cincinnati; John Spoerl, Hamilton; W. F. Jacobs, Youngstown.

Pennsylvania Retail Hdw. Assn.
Pres., Joseph M. Selheimer, Lewiston.
V-P., Geo. V. Thompson, Mt. Jewett.
Sec.-Treas., J. E. Digby, McKees Rocks.
Ex. Com., Joseph M. Selheimer, Lewiston; Geo. W. Hackett, Sunbury; J. E. Digby, McKees Rocks; James N. Kline, Williamsport; George L. Moore, Brownsville.

St. Louis Stove Dealers' Assn.
Pres., R. H. Myers.
1st V.-P., E. L. Wachter.
2d V.-P., G. M. Rinie.
Sec., Louis Boehl.
Treas., F. A. Kannsteiner.

Southern Hardware Jobbers' Assn.
Pres., W. M. Crumley, Atlanta, Ga.
1st V.-P., John Donnan, Richmond, Va.
2d V.-P., E. A. Peden, Houston, Texas.
Secy., C. B. Carter, Knoxville, Tenn.
Ex. Com., Bruce Keener, Knoxville, Tenn.; Chas. Ireland, Greensboro, N. C.; O. B. Barker, Lynchburg, Va.

Texas Retail Hdw. and Imp. Assn.
Pres., S. L. Erwin, Honey Grove.
Secy. & Treas., J. W. McManus, Waxahachie.
1st V.-P., R. L. Penick, Stamford.
Dir.: T. T. Clark, Ennis; H. S. Allen, Calvert; W. A. Spangler, Bonham; D. B. McCall, Waxahachie; W. M. Gunnel, Charles Hutchins, Sam Marcos.

Wisconsin Hdw. Dealers' Assn.
Pres., Ralph Burtis, Oshkosh.
V.-P., E. Tietgen, Manitowoc.
Sec.-Treas., C. A., Peck, Berlin.
Ex. Com., W. H. Busse, Milwaukee; E. R. Ramm, New London; Jas. Murphy, Racine; H. J. Krueger, Neenah.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly. You will find these on pages 40 to 45 inclusive.

I. A. Smith is a new hardware dealer at Byars, Ind. Ty.

M. E. Swan has started a hardware store at Baker City, Ore.

Frank Leish is about to open a hardware store at Lowellville, O.

J. A. Boyd is about to open a hardware store at Chambersburg, Pa.

Len Kirkpatrick is about to open a hardware store at North Side, Ark.

The death is reported of B. F. Todd, a hardware dealer of Clifty, Ark.

W. E. Carter & Co. are a new hardware firm located at Warrensburg, Mo.

Louis Heiner is about to open a new hardware store at Wheeling, W. Va.

B. J. Lyons has sold his hardware business in Everest, Kas., to Price & Co.

The hardware store of Duffy & Carroll at Parnell, Ia., is nearing completion.

Fuller & Wanzer have sold their hardware stock in Quinter, Kas., to C. S. Wall.

Spencer Sanderson has engaged in the hardware business in Vancouver, B. C.

Kip. Radley has purchased the hardware business of T. J. Edgerton, in Ayr, Neb.

Seth Conger has bought the hardware store of A. M. Parmenter of Knoxville, Ill.

The Kelsey Hardware Co., Caro, Mich., have been succeeded by Phelps, Riley & Co.

Geo. R. Hamilton is about to embark in the hardware business at Nampa, Idaho.

Geo. Figeley has purchased the hardware business of A. R. Howland in Goff, Kas.

John Sterns has purchased the hardware business of Hull & Streeter, in Hiawatha, Kas.

Bates & Co. have sold their business in Granite, Okla., to the Gooch Hardware Co.

Frank Hesse has disposed of his hardware store at Clarksville, Ia., to Asher & Cerney.

T. A. Miller is laying in a large stock of hardware at his new store in Bowers Mill, Mo.

C. L. Ledoux, Truesdale, Ia., has purchased the hardware stock of Henry Steinhilver.

J. K. Bell has sold his hardware and harness business in Genesee, Idaho, to T. Driscoll.

The plant of the Harriman Hoe & Tool Co., Harriman, Tenn., is to be greatly enlarged.

Wrin & Son have sold their hardware business in Columbus, Neb., to J. H. Kersenbrock.

Garrison Bros. have succeeded to the business of the Garrison Hardware Co., in Ozark, Mo.

J. T. Case has succeeded to the hardware and implement business of P. G. Case & Sons.

The opening of the Bomar Hardware & Buggy Co.,

at Waco., Tex., on April 6th was very much of a triumph.

Jimmie Stump is making preparations to erect a hardware store at Oklahoma City, Okla.

A. E. James & Son have sold their hardware business in Montezuma, Ia., to A. W. Gordon.

Martin Bergenz and Louis Milbrath have opened up a hardware store at Johnson's Creek, Wis.

W. S. Smith has purchased the business of the Moreland Hardware Co. in Perkins, Okla.

It is announced that the Nell Hardware store at Rushville, Ill., has been closed by creditors.

The death is reported of G. K. Thompson, of the Thompson Hardware Co. of Marysville, Kas.

The Naylor Hardware & Furniture Co. of Marshall, Mo., has reduced its capital stock to $12,500.

Ben Hill has traded his farm near Noble, Ia., for the hardware stock of J. Snyder of Wayland.

Spencer & Ellsworth have sold their hardware business in Fort Scott, Kas., to N. A. L. Planck.

T. A. Hickman has succeeded to the hardware business of Hickman & McComber, in Vinita, I. T.

Lane & Maxwell have sold their hardware and furniture business in Liberty, Neb., to P. Bowhay.

Bert Howe will move to Buckland, O., in the near future, where he will conduct a hardware store.

Frank Warta will put in a stock of hardware in connection with his other business, in Wilbur, Neb.

Lincoln & Wafner have been succeeded in the hardware business in Curtis, Okla., by Leon Lincoln.

C. W. Fundis has succeeded to the hardware business of Cotterell & Fundis, in Junction City, Kas.

Runker, McCausland & Co. have sold their hardware business in Roanoke, Mo., to Denny & Hays.

It is announced that the hardware firm of Leaverton & Knowles, Stockport, Ia., have dissolved partnership.

The Weber-Kirch Mfg. Co., Keokuk, Iowa, have been incorporated for $10,000 to deal in hardware.

James Ford has purchased the hardware and implement business of W. F. Daggett, in Syracuse, Kas.

A. A. Doerr is erecting a new building in Belpre, Kas., and will put in a stock of hardware and harness.

C. H. Hutton has purchased the hardware and implement business of Walter Bray at Bois d' Arc, Mo.

The Croissant Hardware Co. is a new Albany, N. Y., concern capitalized at $50,000 to deal in hardware.

Mylo Lee and W. S. Williams are the proprietors of the Ashland Hardware & Harness Co., Ashland, Ill.

The dissolution is reported of the hardware and implement firm of Rodgers & Swan, in Odlagah, I. T.

Davidson & Deithoff have purchased the hardware business of J. & C. W. Davidson, in Junction City, Kas.

The Juniata Supply Co., Camden, N. J., have been incorporated for $100,000 to conduct a hardware business.

Jas. Patterson and Max M. Thompson are a new hardware concern who will locate at Niagara Falls, N. Y.

John H. Estes has purchased the hardware and furniture business of H. O. Carter & Co., in Richmond, Mo.

Seldenridge & Campbell have been succeeded in the hardware business in Columbia, Wash., by F. A. Seldenridge.

Nann & Lemley have purchased the hardware, implement and stove business of S. O. Carson at Washington, Ia.

G. B. Gorman has purchased a half interest in the hardware and implement business of W. O. Skaggs, in Allen, Kas.

The Janesville Barb Wire Co., Janesville, Wis., have lately installed twenty new fence machines at a cost of $27,000.

The capital stock of the Smith Bros. Hardware Co., Columbus, O., was recently increased from $150,000 to $200,000.

A fire loss of $1,500 is reported as having afflicted the hardware store of the B. H. Phinney Co., at Herman, Minn.

The McDonald Bros. Pitless Scale Co., Pleasant Hill, Mo., have been incorporated with a capital stock of $50,000.

L. C. Harris has sold his interest in the Harris Hardware Co., in Pryor Creek, I. T., to P. R. and Clarence Samuel.

W. H. Bond has purchased a hardware store at Craig, Colo., and is about to install a line of hardware, tinware, stoves, etc.

A. F. Rockwell, former manager of the New Departure Mfg. Co., Bristol, Conn., has been elected president of that company.

The hardware store of Herlan & Trihey Co., at Divernon, Ill., was entered by burglars on March 31st and $50 in cash was taken.

The hardware department of E. T. Kaster at Shenandoah, Ia., was purchased recently by W. R. Ryerson, formerly of Conway, Ia.

Lund & Norch Co., Berkeley, Cal., have been incorporated with a capital stock of $50,000 to conduct a tinning and hardware business.

John McCormick, J. E. Clarke and Edith H. McCormick are the incorporators of the John McCormick Hardware Co., Alamosa, Colo.

H. F. Henderson has sold his interest in the Osceola Hardware & Furniture Co., of Osceola, Neb., and will engage in the lumber and coal business.

Frank B. Gurley, J. H. Bullard and Andrew Schlectvig are the incorporators of the Hefumos Mfg. Co., Stamford, Conn., capitalized at $50,000.

Wm. A. Johnson, Thos. W. Thomas, Hugh R. Morrow, Leslie B. Tanneyhill are the incorporators of the Roswell Hardware Co., Roswell, New Mexico.

It is announced that improvements of an extensive nature are contemplated for the hardware store of the Kimball Dieterich Hardware Co. at Elgin, Ill.

In the recent fire in Kanopolis, Kas., the hardware store of A. M. Reid and the hardware and implement store of Kreider & Sturgis were severely damaged.

The Kelly Axe Mfg. Co., which recently removed its large plant from Alexandria, Ind., to Charleston,

W. Va., will soon have its entire works in full operation.

A. A. Muck, John Montag and M. C. Hunt are the incorporators of the Hunt Hardware Co., Condon, Ore., capitalized at $10,000, to conduct a hardware business.

E. A. Kellar, Henry A. Dierkes and Henry N. Beard are the incorporators of the E. A. Keller Co. of Edwardsville, Mo., capitalized at $9,000, to deal in hardware.

Edward E. Piper is president, L. Dwight Granger is treasurer and M. H. Browne is clerk of the Improved Blind-Hinge Mfg. Co., Randolph, Mass., capitalized at $20,000.

It is announced that G. D. Forbes, Rich. Bibb and Gus Anderson are the directors of a company, which are about to erect a large axe handle factory at White Bull, Tenn.

The Southern Axe & Tool Co. is a new company incorporated at $100,000 to manufacture axes and tools, especially tools used in the turpentine industry at Savannah, Ga.

Dempster Wishart, C. M. Merry, E. L. Stratton, Robt. E. Collins and Ed. R. Chappellare are the incorporators of the Plywell Neckyoke Co., St. Louis, Mo., capitalized at $50,000.

Schroeder & Fischer, manufacturers of the Easy washing machine, St. Mary's, Ohio, have increased their capital stock and on May 1st will begin the erection of a new $10,000 factory.

Sylvester M. Cary, president of Robinson & Cary, St. Paul, Minn., died at his home on April 1st. Mr. Cary was 60 years old and had been engaged in the hardware business for 32 years.

The Bradford Mfg. Co., Bradford, Pa., has been organized to take over the stock of the Thermal Foot Bath Co. The new firm will manufacture the Hodge patent level, plump and inclinometer.

Robt. A. Ward, Henry Dakin and Chas. F. Norfhew are the incorporators of the Morphew Hardware Co., Magnolia, Ill., capitalized at $110,000, for the manufacture of stoves and builders' supplies.

M. C. Cleveland is president, J. H. Carmecial is vice-president, and W. L. Matthews is secretary and treasurer of the Cleveland-Matthews Hardware Co., Pine Bluff, Ark., capitalized at $25,000.

The G. & H. Barnett Co., proprietors of the Black Diamond File Works, Philadelphia, announce that their Black Diamond files and rasps have been awarded 12 medals at international expositions.

The twenty-first anniversary of the birth of the King Hardware Co., Atlanta, Ga., was celebrated on April 4th amid great rejoicing by the members of the firm, and a large clientele of customers.

J. W. Whitlock, Libertyville, Ia., in order to introduce more extensively his line of cream separators, announces that he will ship a sample 10-gallon triple separator for $1.56, provided cash is sent with the order.

At a meeting of the stockholders of the Rock Island Hardware Co., Rock Island, Ill., G. H. Richmond was elected president, Leo Larkin, vice-president; Chas. H. Lutes, secretary and manager; H. C. Schaffer, treasurer.

Fire on March 25th destroyed the plant of the Walker Mfg. Co., Council Bluffs, Ia. The loss is estimated at about $25,000, with very little insurance. The Walker Mfg. Co. succeeded the Novelty Mfg. Co. last year. Their specialty has been hay tools, windmills, and washing machines.

The tenth annual convention of the Texas Hardware Jobbers' Association will be held in Sherman, Tex., April 20th, 21st and 22d. This association is stronger now than perhaps ever before in its history and the entertainment committee promises a very felicitous and edifying meeting.

The Dana Mfg. Co., Cincinnati, O., manufacturers of the Peerless Iceland Freezers, warn dealers to prepare for a hot summer, and to ask their jobber to show them the most complete line of freezers on the market. They claim that Peerless Iceland freezers are the best advertised, the best selling and the best paying ice cream freezers to be had.

The Gem mail box made by the C. A. Peck Hardware Co., Berlin, Wis., is said to be as good a box as the best trade will want, and as cheap in price as anyone would care to pay. It is said that no other box so fully meets the requirements for a strong, nicely appearing, popular priced box. There is an excellent margin of profit for the dealer.

We are in receipt of a kind invitation from Mr. and Mrs. T. Jas. Fernley to celebrate the twenty-first birthday of their son, Thomas Adamson, Friday evening, April 14th, at the their home, 1938 North Twelfth street, Philadelphia. Mr. T. James Fernley is well known to hardware dealers as the Secretary-Treasurer of the National Hardware Jobbers' Association.

The Specialty Mfg. Co., St. Anthony Park, Minn., send us a little booklet describing their easy emptying grass catcher and their other specialties. Their grass catchers have been on the market for four seasons, with sales constantly increasing until they are now regarded as somewhat of a staple article. This firm also manufacture a mechanic's apron, which they claim to be the best on the market.

J. L. Smith, a popular member of the Chicago Retail Hardware Dealers' Association, and the present treasurer of that organization, was recently elected alderman of the 15th ward of Chicago by a tremendous majority. Mr. Smith ran far ahead of his ticket and is a fitting representative of the hardware association. His election showed in what high esteem hardware dealers are everywhere held by their neighbors.

The Chicago Retail Hardware Dealers' Association are making preparations for their annual picnic this summer and expect to make the occasion more joyous, more edifying, and more elaborate than ever before. The following members were appointed to form a committee to arrange regarding the details of this occasion: A. J. Engelhardt, Martin Engelhardt, Hans Fahr, S. J. Koehler and Fred Ruhling. The affair will be given in the latter part of July and the committee are now looking for a location. The next monthly meeting of this association will be held on Friday,

April 28th, at their headquarters on the fourth floor of the Masonic Temple.

The Benedict & Burnham Brass & Copper Co., 211-213 Lake street, Chicago, carry a full line of soft and cold rolled copper, all sizes; boiler sheet copper and bottoms and all kinds of tubing, rod, sheet and wire in copper and brass; also soldering coppers.

We were recently honored by a visit from C. N. Barnes of Grand Forks, N. D., secretary of the North Dakota Retail Hardware Dealers' Association. Mr. Barnes is making an extended trip following his presence at the convention of the National Retail Hardware Association at Minneapolis, and is receiving a hearty welcome at every stopping place from his many friends who know him as perhaps one of the most energetic, sincere and astute hardware retailers in the country.

At the annual meeting of the stockholders of the American Wringer Company, the following were elected directors of the company: W. S. Ballou, A. G. Beardsley, Jr., W. S. Granger, J. S. Hemenway, L. A. Mills, George Reuter, Jr., Stanley G. Smith and Dr. J. E. Sullivan. The only change in the board is the election of Dr. Sullivan in the place of John J. Banigan. The directors met and organized, by electing W. S. Ballou president, Stanley G. Smith secretary and George Reuter, Jr., treasurer and general manager.

The Enterprise Mfg. Co., Philadelphia. Pa., have gotten out a new food chopper, which they have just placed upon the market. It is a new size chopper for household use, which the manufacturers claim housekeepers have long been clamoring for. It retails at $1,25, chops 1½ pounds of meat per minute, and is exactly like their No. 100, which sells at $1.50, and their No. 300, which sells at $2.25, except in size. It has been named "The Baby No. 50 Enterprise Food Chopper," and makes their line complete. Four knives are furnished with each machine. Dealers are requested to write for complete catalogues describing their entire line, including cherry stoners, lawn sprinklers, ice shredders, fruit presses, etc.

M. S. Matthews, Boston Block, Minneapolis, Minn., secretary of the Retail Hardware Dealers' Mutual Fire Insurance Co., of Minnesota, sends us a brief statement of the financial condition of that company for the quarter ending March 31st, 1905. We quote the following:

Premiums written, 1905	$ 16,800.61
Insurance in force	2,016,155.00
Cash on hand and premiums due	51,559.77
Total liabilities (re-insurance reserve)	18,334.00
Net surplus	33,225.77
Increase in assets, 1905	3,525.04
Increase in surplus, 1905	1,406.42
Losses 1905	7,467.51
Return premiums to policy holders (net saving) month of March	1,959.83

Return premium for 1905, 35 per cent.

C. A. Young, representing the Peters Cartridge Company, has just completed a very remarkable and successful trip in Texas. From February 14th, beginning at San Antonio and ending at Groesbeck April 1st, he visited twenty-three towns, shooting with the local gun club in each case, under varying conditions, which embraced all the different kinds of weather that were ever invented. He shot at a total of 2,000 targets, breaking 1,905 of them, an average of 95¼ per cent. There is not a shooter in America to-day who could excel this record of Mr. Young's, and even he says it would not have been possible but for his trusted "Ideal" load. The shells he used were taken out of regular stock and were said to have been in no sense special, but simply up to the standard of all Peters goods.

A DECIDED INNOVATION.

We show in the accompanying illustration one view of the improved adjustable handle drawing knife, which is one of the latest innovations of the Ohio Tool Co., Columbus, O., and Auburn, N. Y. This firm emphasize particularly the great simplicity and strength of this feature. The ratchet allows the handles to be set at any angle to the plate that may be required or to be removed entirely. These drawing knives are packed one-quarter dozen in a box with imitation cherry handles handsomely stained and polished. They are made in ten sizes. This firm are also large manufacturers of planes, plane irons, chisels, gouges, auger bits, handles, bench and hand screws, cooper's wood and edge tools. A handsome catalogue describing these goods will be furnished the trade upon application. When writing for same, kindly add, "Saw it in THE AMERICAN ARTISAN."

Adjustable Handle Drawing Knife.

STANLEY SCREW DRIVERS.

Perhaps a large percentage of the users of plumbs and levels, rules, iron and wood planes, try squares and bevels, bit braces, mitre boxes, screw drivers and other carpenter's tools have realized for a long while that the Stanley Rule & Level Co., of New Britain, Conn., make an exceptionally high grade of tool. We believe that not all of them, however, understand that this company was awarded the Grand Prize, the highest possible award, at the Louisiana Purchase Exposition. The announcement of this verdict probably created little surprise among the members of the trade, as tool users generally appreciate the fact that Stanley tools have never been known as "cheap tools," and that they have always had the reputation of showing value received.

Victor Handy.

The fact alone that this company announce that they are at present the largest manufacturers of tools in their grade in the world is a pretty strong endorsement of

No. 20 Victor.

No. 50 Special.

their policy of furnishing the best goods at the lowest possible price for tools of the best quality.

Their policy of not producing any tool of a cheap grade was not so extremely successful in the past, because of the great difficulties which at that time beset manufacturers, but which now have been done away with by the greatly improved methods and facilities of manufacture. The company announce that to-day a tool user is able to purchase and keep a plentiful supply of the very highest grades of tools at prices which twenty-five or forty years ago, would have purchased only the very poorest grades.

This firm has been engaged in the designing and manufacture of carpenter's tools ever since 1857, under their present title of the Stanley Rule & Level Co. For a number of years prior to that date the same business was carried on under other names. Thus, with over fifty years' experience, they are enabled to offer tools which embody many numerous ideas suggested within this long lapse of years, and the experience which it would necessarily entail. It has been the policy of this firm for a long time to receive suggestions from members of the trade, practical artisans and their employes regarding the designs to be used for new tools. They frankly state that many of the special tools which have helped to enrich their very complete line, have been received from these sources. All of their tools are guaranteed. If any Stanley tool which has passed the rigid inspection given it at their factory before shipment should show any defect due to the fault of the manufacturers, such tool, if brought to their notice, will be replaced without any cost to the owner.

No. 40 Cabinet Makers.

Defiance.

The accompanying illustrations show a number of new screw drivers which have just been gotten out by this company. The Victor screw drivers are made with blade, shank, and square head form, from one piece of special steel, as shown in the cut. The blades are finely tempered and the whole tool is well finished. A rivet through the ferrule, together with the form of the head, securely fastens the handle.

Victor Machinists

The Victor machinists' screw drivers are especially adapted for heavy work, and as shown in the accompanying illustrations are made either short for use in places where a long driver cannot be conveniently used or with double grip handle and hexagon shank for use with a wrench.

The manufacturers will be pleased to send a catalogue describing these screw drivers more extensively and their other tools to retailers upon request. They also publish a mechanics' reference book for the users of Stanley tools. When writing for either or both of these catalogues, kindly add, "Saw it in THE AMERICAN ARTISAN."

Victor Machinists.

This company's New York office and export department are at 107 Chambers St. Here they conduct an enormous business, both in local and foreign trade. Almost every hardware jobber in the country handles their tools and will supply the trade. At least one sample is to be found in pretty nearly every carpenter shop in the country.

Among their trade marks and trade names are the words. "Stanley," "Bailey," "Bed Rock," "Victor," "Defiance," "Odd Jobs" and "Zig-Zag." Their trade marks also include all letters and numbers arbitrarily adopted by them to identify goods of their manufacture.

All persons are cautioned against imitating the boxes in which their goods are packed, these boxes being of a special color and having labels of a special color.

Sectional View Victor.

PFLUEGER'S FROG.

Most people have come to regard the ordinary frog as having no particularly deadly faculties, but rather as a most interesting plaything. His croak sounding through the depths of the night has never been heard with the fearful agony with which one listens to the roaring of a lion or the crack of a rifle. Perhaps alone of all other animals or reptiles the frog possesses absolutely no faculty for engaging in combat. His sole means of self-preservation lie in the use of exceptionally long and usually juicy pair of legs. But in spite of the verdict of ages, the Enterprise Mfg. Co. of Akron, O., announce that Pflueger's luminous floating

meadow frog is of a most satanic disposition, and that he is most peculiarly deadly.

It should be noted, however, that his legs are not of a digestible substance, but that they are made of satin cork and pure rubber.

However uninviting it may appear to the hungry mortal, it is nevertheless decidely attractive to the less critical fish, and it is claimed to dive after a fashion so intensely frog-like, and to return to the surface in such a highly life-like manner, that those shy old bass and well-schooled pickerel are utterly fooled by its super-deceptive tactics.

This frog is shown in the accompanying illustration. When placed in the water, it emits a phosphorescent glow. The luminous properties of this glow, together with the striking appearance of the bait, attract fish from an unusual distance. The shine is not a brilliant one, but just enough to represent the unusual glittering scales of a live fish in the water. When applied to trolling or other baits, it gives out a scintillating appearance attractive to fish, especially at night.

Pflueger's Floating Meadow Frog.

These luminous baits are made in every conceivable form and shape from insects to small fish. This firm steadfastly refuse to sell consumers. Illustrated catalogues and circulars more fully describing this frog and their many other lines will be sent to members of the trade upon request. When writing for same, kindly add, "Saw it in THE AMERICAN ARTISAN."

TRIO OF TRADE WINNERS.

The Benbow-Brammer Manufacturing Company, of St. Louis, Mo., extensive manufacturers of washing machines, have been selling for a number of years with marked success, the trio of trade-winners, shown in the accompanying illustrations. These washers have been known to the trade as the "B. B.," the "Schroeder" and the "Brammer" rotary washers.

The tubs of these machines are made of the best Louisiana red cypress lumber, thoroughly kiln dried. The inner side and bottom are deeply corrugated, all joints are tongued and grooved, the lids are of double thickness and fit tightly on the tub, thus making a practically steam-tight tub. This is very essential in keeping the water hot and thus hastening the cleansing of the clothes. These machines are fitted with a reciprocating mechanism which is simple and strong in construction, easily operated and gives at the same time the best possible results on wash-days, a feature which is indeed very comforting to the busy housewife.

Any dealer will appreciate the fact that a neat finish always facilitates the sale of an article, and for that reason the manufacturers of the trio of trade-winners have taken special pains to accomplish this end. These machines are handsomely finished in rosewood color, the hoops and mechanism being aluminum-bronzed and all metal parts coming in contact with the clothes are heavily galvanized, thus preventing any possibility of the clothes becoming rust-stained.

B. B. Roller Gearing Rotary.

These are standard time-tried machines, fully guaranteed to give satisfaction if directions are followed as placed in each machine. It is claimed that dealers interested in handling household necessities will find it to their advantage and profit to add one of these machines to their line.

Schroeder Roller Gearing Rotary.

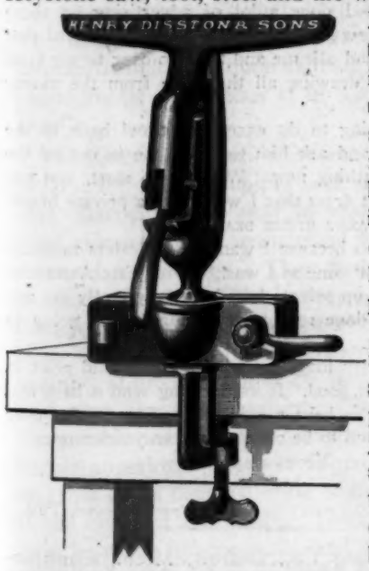
In addition to the "trio of trade-winners" the manufacturers are also furnishing to the trade four styles of lever washers, namely, the Columbia round and square and the Great Western round and square. The Benbow-Brammer Manufacturing Company are pioneers in the washing machine business, having one of the largest factories in the United States exclusively devoted to the manufacture of washing machines,

Brammer Rotary.

turning out from 250 to 300 complete machines per day. They will be pleased to furnish complete details and other information upon request. When writing kindly add: "Saw it in THE AMERICAN ARTISAN."

DISSTON SAW CLAMPS.

While Henry Disston & Sons, proprietors of the Keystone saw, tool, steel and file works, Philadelphia. Pa., are known throughout the civilized world as manufacturers of saws, they are also famous for a large line of other goods, including almost every kind of tool known to the carpenter's trade.



Improved Ball and Locket Clamp.

The accompanying illustration shows their Improved No. 1 adjustable ball and socket clamp. By the use of this clamp, a saw can be filed at any angle or square as the operator may desire. This clamp will be sent hereafter when filling orders in place of the old style No. 1, over which it is a great improvement.

The manufacturers make a large line of these clamps for the same use including the No. 4 adjustable saw clamp. The latter is particularly adapted for use when filing narrow band saws and tools of a like nature. The supporting levers of this clamp are adjustable and can be regulated to suit the various widths of saws to be filed, the blade being maintained in the same position throughout, and by slightly raising the lever, can be moved along the edge.

A catalogue and price list describing these and other tools will be furnished to members of the trade upon request. When writing for same, kindly add, "Saw it in THE AMERICAN ARTISAN."

A NEW LABEL.

The accompanying illustration shows the label which the Chapin-Stephens Co., Pine Meadow, Conn., manufacturers of rules, planes, levels, gauges, etc., are getting out for use in connection with their box wood rules. This label will be printed in red, and will henceforth be used with perhaps slight variations on their entire output. They have departed from the long used green box in which their tools were formerly enclosed to red ones, which will match the labels.

Their new line of flexible folding rules have been named "flexifold." This title will be registered in the patent office. These rules have already met with quite a demand, and the manufacturers feel that they

A New Label.

will sell quite as well as their other goods. These rules are made with riveted joints in four or more pieces from 2 feet to 8 feet, either yellow or white enamel. They are graduated in sixteenths of inches on both sides. Two styles of these rules are graduated in sixteenths of inches on one side and in the metric system on the other.

Their No. 100 level has been on the market for some time, and has proved a very fast seller. They have added to the line by their No. 102 plumb and level, and announce that they have hardly been able to keep pace with the orders received. These levels are 12 inches long, are polished with handsome nickel top plates and are packed one dozen in a pasteboard box. It is claimed that they are the best selling low priced 12-inch levels made. A sample of the No. 100 level will be sent on receipt of 20 cents; No. 102 on receipt of 25 cents.

This firm also sell box wood saw dust, carefully air dried, clean and bright. It is said to be especially adapted for cleaning, polishing and drying out bright metal work, etc., and that it doesn't stain like saw dust from the native woods. It is screened to get out

all the sticks, etc., and is shipped after having been packed in burlap sacks 28x40 inches.

Circulars describing these and other lines of this firm's products will be furnished hardware dealers upon request. When writing for same kindly add, "Saw it in THE AMERICAN ARTISAN."

COLTS' SELF LOCKING CLAMPS.

The Batavia Clamp Co., Batavia, N. Y., are sending out a little booklet containing a description of Colts' quick adjusting self-locking clamps. The style of finish, quality of material, adaptation to sundry work and convenience of handling will, it is claimed, commend them to every artisan. An eccentric lever is used in the construction of this clamp and the pressure is applied instantly, directly and efficiently, thus avoiding the liability of displacing the work, occasioned by turning a slow working screw.

These clamps, it is said, are not an experiment, having been used extensively for twenty years in all the trades. They call special attention to the improved movable jaw with its double grip on the bar; also to the new Universal clamp and the U bar clamp. The U bar is made of the best Bessemer steel plate and pressed into U form while cold. This process, it is claimed, stiffens the bar. It has a fixed head supporting an eccentric lever and immovable jaw, which has a strong fixed tongue pressing on the back of the U bar and making a broad, strong grip. The eccentric lever gives instant action and the tongue holds the jaw so firmly that continued jarring, is is claimed, will not loosen the clamp.

Illustrated catalogues describing these clamps more completely and also their various styles of jacks will be mailed to dealers upon request. When writing for same, kindly add, "Saw it in THE AMERICAN ARTISAN."

PRIVATE BRANDS.

TO THE AMERICAN ARTISAN.

I ain't nothing of a knocker and as a rule I take things just as they come. There is a limit to a man's patience though and what you call private hands have pretty near reached my limit. This is why.

A fellow, who I had met at the conventions every year, went out on the road for ———— (name of jobbing house omitted by editor). I liked the fellow real well and, when he come around to our town, I gave him a big order and then turned down my regular drummer. Amongst the other goods I ordered, I told him to send down a big bunch of edge tools. They had this jobber's brand and no other company or jobber sold the same brand.

PRIVATE BRAND SOLD WELL.

I sold some of these tools and the people took to them. In one week I sold a big lot of axes, hatchets, saws, scythes and things of that kind—all of this one brand. The brand grew popular. I followed your argument and advertised them. The quality was good and the price was fair, so the tools took. Everybody bought some. I sold one to a fellow who come fifty-five miles from the country just to get one. I spent a whole lot of money on advertising but it all come back with a lot left over. I got a name for selling these tools and everybody knew I sold them. They knew that the tools were good and cheap.

When it came to edge tools my rival hardware dealer wasn't in it for one second. He didn't stand any chance at all, but for that matter he never did anyway. But that was about two years ago.

JOBBER CHANGES SALESMAN.

I kept on selling this particular brand for pretty near three years, then they came back at me. My friend, this drummer, who had gotten me to take on this brand and was with the ———— jobbing house, decided that other fields gave more fruit and he left. The house put another chap on his territory. The other fellow was named McKee, as I remember. McKee was a fresh young guy—thought he knew it all from picking cotton down to writing poems—but he didn't. Told me he was just out of school and he had a pull with the house. I told him he'd pull them so far that he'd pull them into bankruptcy. I guess he will too.

The second time he come around he started in to treat me familiar like; slapped me on the back and called me Mat. I'd like to have hawled off and pasted him one. Then he started telling me what I wanted and what I didn't want, picked out different articles and altogether behaved like a ——— fool.

I told him to get the ——— out of here and he done it. Then I wrote to the house and said unless they sent around another man I'd stop buying of them. In about two weeks I got the answer. They said that he was highly respected, that he had a good trade and that he would undoubtedly treat me white. They hoped the matter would be fixed up soon and all that rot. McKee come around again, but I didn't give him a chance to talk business; just fired him out right off.

RIVAL DEALER SEIZES OPPORTUNITY.

Then McKee went to my rival, the other hardware dealer, and told him about the scrap. Any fool could have seen the chance and my rival did. His name was Hanigan. He knew about these private brand tools. He knew I'd been selling them pretty fast and getting all of his trade. So when McKee told him about the scrap he laid in heavy on these tools. He bought a lot and then put a notice in our paper saying as how I was out of it and if people wanted these tools they would have to go to him.

LOSES TRADE.

People stuck with me for a while, but for the last four months I haven't had half the trade I had previous. Those tools helped sell a lot of my other stuff. Folks knew I had good hatchets and saws and it stood to reason that my other stock was good too. Now I am kind of up against it.

Now I am going to ask you and everybody, is that justice, is that equity, is that a square deal? Because a man won't stand being knocked around and sassed by a youngster who ain't old enough to lick his boots, is it right that he should lose half his trade? I done a lot of advertising on those ——— tools. Even now people come in as haven't heard that I ain't selling them, and ask me and then go over to my rival and buy them. He's drawing all the trade from the money I put into the thing.

I ain't got anything to do except to crawl back to the jobber on my knees and ask him to snake me in out of the wet or start on something new. When I do start, you can bet your mother's best dress that I won't buy a private brand.

WARNS OTHER DEALERS.

I write you all this because I want other dealers to watch out and not get caught same as I was. I wish THE AMERICAN ARTISAN would show up private brands as they really are and ruin them. They've done me brown, though I am going to pull through all right.

This letter is pretty long, but I wish you would print it, as it would do a lot of good. If its too long send it back and I'll trim some off. I've been a subscriber of yours for over sixteen years and intend to be one for sixteen years more.

Yours respectfully,

MAT ————————,

————————, Tex.

The U. S. Heating Co., Detroit, Mich., manufacturers of hot water and steam heaters, have increased their capital stock from $200,000 to $275,000.

Heating and Ventilating

The Parke-Pillatt Co., Chicago, Ill., are a new furnace manufacturing concern incorporated at $10,000. The company will be located at Room 304, 21 Quincy street.

J. T. O'Hara, representing the Quaker Mfg. Co., Chicago Heights, Ill., was a recent visitor at THE AMERICAN ARTISAN office, and reported a uniformly good demand for Quaker warm air and combination hot water heaters.

The Lennox Furnace Co., Marshalltown, Ia., are meeting with remarkable success in the sales of their Torrid Zone furnaces. These furnaces are claimed to be gas tight with no packed joints, no exposed fire pots, and to be very easily set. They are sold from Pittsburg to Denver and from Canada to Texas. Dealers are advised to try a steel furnace, as in case they do, they will never again be tempted by the cast iron.

The water pan, which is a feature of the Waterloo side wall register, manufactured by the Waterloo Register Co., Waterloo, Ia., they claim, is good talking point for retailers, in that the warm air in passing through the register absorbs the moisture through this pan, and consequently does not crack the furniture, kill the plants, or cause the infinite number of diseases which the inhaling of dry air brings about. This pan can be easily removed and when in place in the register, not only deflects heat out into the room, but at the same time the heat impinging upon the bottom of the water pan causes evaporation.

The Patric Furnace, made by the Patric Furnace Co., of Springfield, O., is claimed to be adaptable for all climes and for all degrees of worldly prosperity. The coking and smoke burning magazine insures good combustion, a steady, even flow of heat, economy and a clean radiator. This underfeed device is not an experiment, but has been a great success for many years, and is said to be a practical application of a very thoroughly scientific idea. These furnaces can be used for soft coal, hard coal, coke or wood. The manufacturers will be pleased to furnish circulare and catalogues upon request. When writing for same, kindly add, "Saw it in THE AMERICAN ARTISAN."

The Excelsior Steel Furnace Co., Chicago, claim orders for furnace pipes and fittings during the first quarter of this year in such a degree that the total amount shows an increase of 135 per cent over those of a year ago. They find these returns very gratifying in view of the increasing competition in this line, and the fact that the makers of lightweight goods have been putting forth strenuous efforts to obtain business at prices much below those which can be made on wares like the Excelsior. They believe that this remarkable increase is a strong evidence of the intrinsic superiority of their furnace pipe and fittings, and that it is a demonstration of the claim that the best is the cheapest ultimately. Their new catalogue will soon be ready for the mails, and dealers are requested to write for it in advance. Price lists will be furnished upon application.

THE WISE POSTER.

The Wise Furnace Co., Akron, O., are sending out a large colored poster headed "Wise people buy Wise furnaces." Their trade mark with a picture of the sophisticated owl appears in one corner and "The best fire pot" in another. In the center of the poster is shown the furnace which sold so exceptionally well immediately after it was placed on the market a year ago.

This firm announce that their growth and progress are most remarkable and show figures to prove that they have struck the popular idea in furnace construction. All their time, energy and enthusiasm are concentrated, they announce, upon the one purpose of the making the best furnace for the consumer and for the dealer. They believe that Wise furnaces have no equal for durability, economy, simplicity, capacity and general practical daily results.

These posters are especially valuable to retailers as advertisements, because of their very attractive appearance and bold lettering. We should strongly advise all dealers to send for one, and mention at the same time, "Saw it in THE AMERICAN ARTISAN."

CANTON PERFECT BLAST FURNACES.

The accompanying illustration shows the circulation of flames and burning gases through the large secondary radiator, with which the Canton Perfect Blast furnace is fitted. This furnace is manufactured by the Bonnot Co., of Canton, Ohio, who announce that the very good materials which enter into the construction, the very high class of workmanship, the accurrate fittings of the furnace and the patented secondary radiator have filled their plant with orders. They claim that the secondary radiator is one of the greatest fuel savers thus far placed upon the market. It is made wholly of cast iron, as are also the elbows connecting it to the down draft flues from the main radiator. These parts are joined together with flange connection and are then fitted with telescopic ends, preventing, it is claimed, leakage of gas or smoke which is so common in furnaces having many sheet iron parts.

Sectional View Showing Secondary Radiator.

This secondary radiator retains the unused results of combustion until they give off their heat, thus giving, it is claimed, far greater effectiveness than the furnace using the same amount of fuel, but without this form of radiator. Without this radiator the manufacturers claim the heat would be allowed to escape into the chimney directly through the main radiator; the draft would be increased and the capacity of the furnace with the same amount of fuel would be decreased.

The manufacturers would be pleased to furnish further particulars upon request. When writing for same, kindly add "Saw it in THE AMERICAN ARTISAN."

Tinshop

ELBOWS AND PIPE INTERSECTIONS.

TO THE AMERICAN ARTISAN.

For drawing elbows and pipe intersections lay off stretchout as indicated in enclosed sketch, Fig. 1, and proceed to draft pattern the same as in a common elbow. Of course the taper in blank will make a differ-

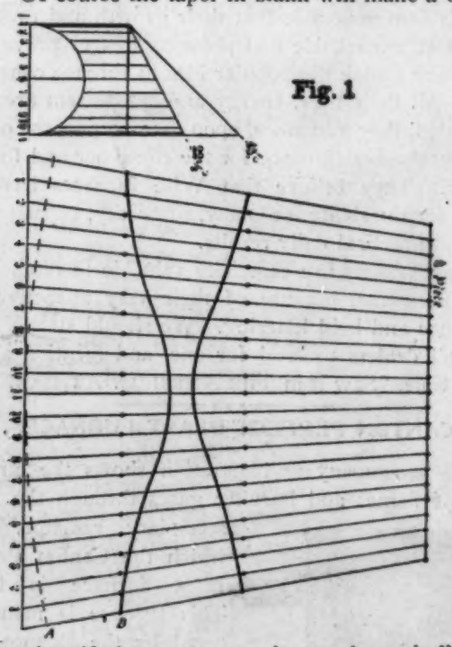


Fig. 1

ent cut, but if the proper arc is struck, as indicated at (a) by cuts on spaces, and the miter line B is varied in accordance, there is no reason why it will not produce desired effect.

Fig. 2 is a development of one pipe passing through

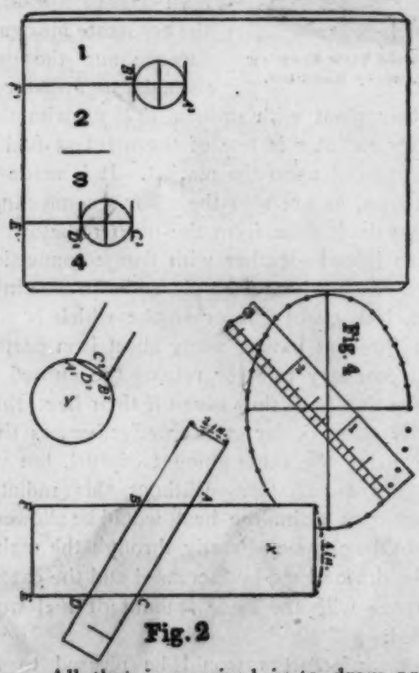


Fig. 2

a larger. All that is required is to draw profile x, which is a 4-inch pipe with a 2-inch pipe passing through on an incline.

Profile (y) is looking down on pipes, and it is necessary to get diameter of hole at right angles to larger pipe; (z) is blank of larger pipe, which is divided into four equal parts; see 1, 2, 3, 4. At line F^1 and E^1 we place centers of holes to be cut. The distances from F^1 and E^1 to B^3 and D^3 equal the distance from F to B and DE (profile x). The distance from BA and DE (profile x) equals distances from B^3 to A^3 and D^3 to C^3 (profiles), or the lengths of holes to be cut. Profile (y) is the circumference of larger pipe and smaller pipe intervening by drawing line from A^2 to B^2, bisecting this from D^2 to C^2; the line then D^2 and C^2 added to diameter of smaller pipe gives the width of hole. This, depending upon incline of smaller pipe, will vary from a perfect circle to an oval.

Fig. 3 is the pipe cutting a cone and the same rule is applied, only we must find the width of holes, which varies according to diameters of cone at place of cutting; see G and H in profile 1. The diameters of cone are shown in profiles 2 and 3. With x as a radius carry lines G and H to stretchout, which is divided into four equal sections at points of intersections of lines G and

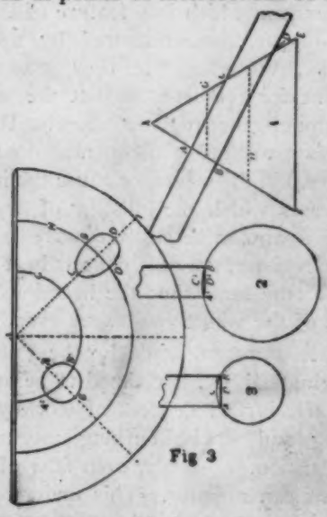


Fig 3

H, and I-J are center of holes to be cut. Proceed as in first instance.

Fig. 4 is the method used in striking an ellipsis. Take the two radii and by laying rule on the diameters, as struck on blank, with proper figures cutting lines, make marks or points around. After tracing through these you have the oval perfect and can do it all with the rule. A. B. C.

Chicago, April 6, 1905.

EAVES TROUGH FORMERS.

The accompanying illustration shows the end of an eaves trough after having been closed by one of Bishop's quick working forms. This form is manufactured by the Bishop Hardware Co., Dowagiac, Mich. It is claimed that the tool can close the end of an eaves trough much more quickly, neatly and cheaply than in any other way.

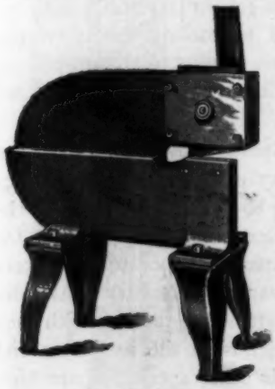
The Work.

When the trough is cut, an end can be put in both parts, thus necessitating no waste. The frost will not

burst the end out, and old work can be closed from a ladder. The form is made in five sizes, 3½, 4, 4½, 5 and 6.

THE WALKER SLITING SHEAR.

The accompanying illustration shows a sliting shear manufactured by the Walker Tool Co., of Lansing, Mich. This machine has been very popular with the large number of tinners who have had occasion or opportunity to use it, and the manufacturers believe that it will soon be in evidence in a very large percentage of the tin shops in the northern section of the country. It is built to be used by boiler makers and sheet metal workers in general, and will slit a plate ¼ inch thick and any width or length. Whiteley's cam motion has been adopted in the construction of the machine, and the latter is consequently very powerful and easy to operate.



Sliting Shear.

The cam is made of the best tool steel, it is claimed, and is 2½ inches in diameter with a bearing 4 inches long. A bearing on the opposite side from the lever or in the cap makes the cam rigid under the heaviest strain. The manufacturers use solid tool steel for their shear blades. The levers are held in a malleable head and two levers are furnished with each machine to be used for light or heavy work. Shear blades for shearing round steel up to ⅝ inch in diameter will be furnished on request. The machine is said to be nicely designed and mounted on legs, the proper height to be most convenient for the operator. When fully equipped the machine weighs 340 pounds.

The manufacturers make a large line of punches, dies, shearing machinery and special tools to order. They also carry an extensive line of the standard styles. Catalogues describing their full stock will be furnished upon request.

When writing for same, kindly add: "Saw it in THE AMERICAN ARTISAN."

STOWELL ROOFINGS.

The Stowell Mfg. Co., Jersey City, N. J.. advise the roofer that when it comes to putting up the roof, he had better do a little thinking on his own account. There are so many kinds of roofings to tempt and confuse the builder that the man who chooses blindly is certainly cutting out for himself a large block of trouble.

This firm manufacture asphalt slag roofing, asphalt Feldspar roofing, asphalt Monarch roofing, asphalt gravel roofing and asphalt roofing felts. They claim that shingle roofs can be repaired very satisfactorily by removing all nails, knots and projections and laying the roofing on top of the old shingles. This, it is said, saves the expense of removing old shingles and makes a perfectly durable roof out of an old and leaky one at two-thirds the cost of a new shingle roof.

The manufacturers claim to have every facility for making good roofing. Their machinery is all of the very highest order and is claimed to insure uniform quality and thickness. No experience is needed to place the asphalt roofing on; no tools or implements are required. It has been passed upon by the Board of Underwriters as a standard roofing, which guarantees a low rate of insurance.

Besides their roofings, this firm make all kinds of asphalt products, including asphalt roofing cement, black asphalt paint for the roof, elastic rubber roof cement for repairing leaks, etc.

NOTES AND QUERIES.

WATER SUPPLY SYSTEMS.

From M. G. Combes & Co., Shellsburg, Ia.

For a town of 700 inhabitants, would air pressure for a water supply system be preferable to a stand pipe?

Ans.—An air pressure system could not be used to advantage in a town of less than 30,000 inhabitants.

ORNAMENTAL HIP SHINGLES.

From C. A. Strahle, Sargent, Neb.

Where can we buy ornamental hip shingles?

Ans.—Merchant & Co., Philadelphia and Chicago; Cortright Metal Roofing Co., Philadelphia; Galesburg Cornice Works, Galesburg, Ill.; The Illinois Roofing & Supply Co., Chicago, Ill., and Friedley & Voshardt, Chicago.

UNDER FEED FURNACES.

From Lieber & Campbell, Hartford City, Ind.

Who makes under feed furnaces?

Ans.—C. E. Sutton & Co., Toledo, O.; The Patric Furnace Co., Springfield, O., and W. A. Clark & Co., Covington, Ky.

THE PRINCE-STOKOE OIL STOVE CO.

From G. H. Watts, Georgetown, Ky.

What is the address of the Prince-Stokoe Oil Stove Co.?

Ans.—408 Pioneer St., Cincinnati, O.

BOSS GASOLINE STOVE.

From C. G. Price, Martelle, Ia.

Who makes the Boss gasoline stove?

Ans.—Lindemann & Hoverson Co., Milwaukee, Wis.

LAW HAY CARRIERS.

From Bradberry Bros., Hurley, S. D.

Who makes the Law hay carrier?

Ans.—The Law Mfg. Co., Prior and Oakley streets, St. Paul, Minn.

ITEMS.

J. N. Cooke, Don Wood and P. M. Randall are the incorporators of the Self-Heating Tool Co., New York City, capitalized at $50,000.

The National Enameling & Stamping Co., with eight branches and headquarters at Milwaukee, Wis., announce that they manufacture an exceptionally large line of railroad milk cans, factory cans, cream separators and other goods of that description.

The sheet mill department of the Inland Steel Co., Indiana Harbor, Ind., resumed operations recently

after a shut-down of six months on account of labor troubles. This mill is now manned by non-unionists, and their change of policy leaves only one union sheet mill in the Calumet region.

Edward Schwatzenberg of the National Enameling & Stamping Co., Milwaukee, Wis., is at present rusticating at Mt. Clemens, Mich. Mr. Schwatzenberg is a very urgent believer of the principles as laid down in "The Strenuous Life," and his friends wish him a most pleasant time during his well earned vacation.

Frank H. Hoffman, Assistant Secretary of the Detroit Copper & Brass Rolling Mills, Detroit, Mich., was a recent visitor at THE AMERICAN ARTISAN office. Mr. Hoffman in spite of the many friendships which he enjoys in Chicago, and in spite of the hearty welcome which he always receives when visiting the city, was a decided stranger to these parts and was heartily welcomed after his absence of ten years.

The Standard Stamping Co., Albion, N. Y., announce the removal of their Buffalo works to Albion, where they have installed a modern plant with upwards of 50,000 square feet of floor space equipped with electric power and every facility for the economical production of all kinds of metal stampings. They are firm believers in the advantage both in cost and strength of stampings over castings. This firm announce also that they have purchased the entire plant and patents of the Buckland Fire Extinguisher Co., and are now ready to make contracts for chemical fire extinguishers.

The Wm. Connors Paint Mfg. Co., proprietors of the Troy Paint & Color Works, Troy, N. Y., believe that any weak spot in a roof should be repaired now. They announce that a leaky roof can cause an immense loss in a very short time, and that their American Seal Elastic Oil Cement is a sure cure. This firm manufacture American Seal roof paints, in both metallic and graphite forms, and they claim that their prices are right in spite of the very high quality which they offer. The Perkins Roofing & Supply Co., 235 Lake St., Chicago, and the Stockhoff Supply Co., 107 No. Main St., St. Louis, are their western agents.

The Enterprise Mfg. Co., Philadelphia, Pa., are introducing the Enterprise patented corrugated spout for their Wagner or Union sausage stuffers. The spout has corrugations which prevent the air from entering the casing, and which insure the preservation of the sausage. They are made in five sizes. 8 inches long and from ⅜ inch to 1¼ inches in diameter at the small end. This firm also manufacture the Enterprise Cherry Stoner. Two of these lines are constructed with a patent regulating device which makes it easier to adjust the machine for different size cherries and guarantees the jaws retaining their position when set. They are recommended for rapid and effective work, and are made in two styles, japanned and tinned.

The Emmelmann Bros. Mfg. Co., Indianapolis, Ind., are intensely gratified with the manner in which their gasoline soldering iron and blow torch is selling. This tool can be used to advantage anywhere, and is guaranteed not to go out. The results obtained in the construction of the tool are the combination of many years of experiment and many years of study. The manufacturers believe that it is the only combination soldering iron and blow torch which is perfect in its adaptation to the uses for which it was intended. The heavy lumbering fire pot and blow torch are entirely done away with by the use of this soldering iron. The tinner is allowed just so much more time, energy and opportunity to complete his job satisfactorily with an iron which is not exposed to cooling drafts, which emits no sparks; requires no pumps, platinum coil or other of the appliances which are usually to be found on tools of this description.

Merchant & Co., Philadelphia, with branches at New York, Chicago, Kansas City and Brooklyn, manufacturers of almost everything to be used by metal workers, are meeting with an especially heavy demand for their creamery ware, sap pans, evaporators, cookers and other high grade tinware. This very heavy demand is due in part to the attractive prices which they are meting out to their friends in the hardware and tinware lines. Among their other specialties are high grade roofing plates, extra quality bright plates, solders, babbitt, newspaper and mixed metals, "Star" ventilators, "Gothic" shingles and metal "Spanish" tiles. Their catalogue is called the red book, and this firm believe that it should be held in readiness by every tinner in the country.

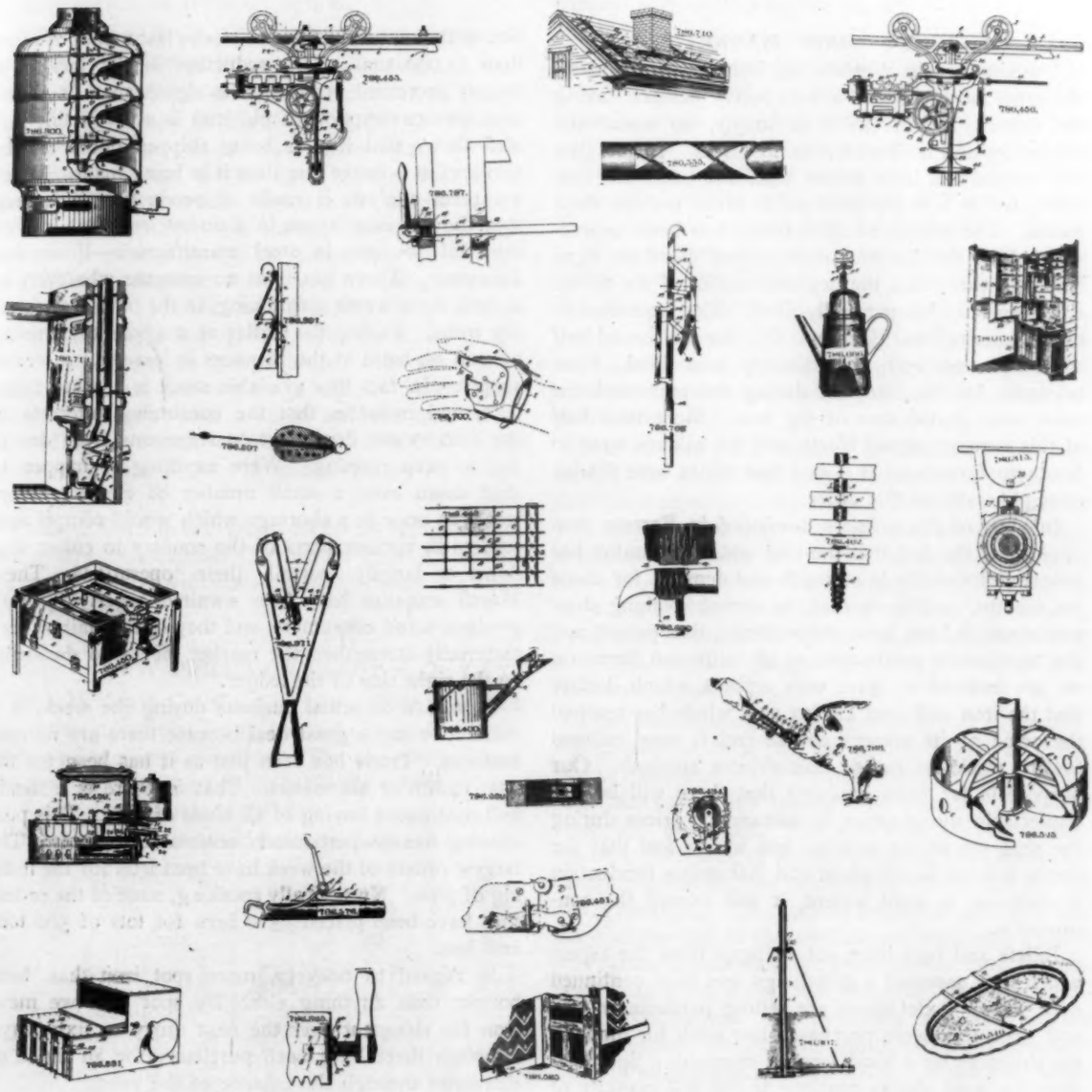
We are in receipt of a very unique little booklet from the Plume & Atwood Mfg. Co., 199 Lake St., Chicago, containing their stock list. This firm are large manufacturers of brass in sheets or rolls, soft, half hard, spring and spinning; low brass, soft or hard; German silver in sheets, rod or wire; brass and copper wire, soft hard or spring; "Snow" brass drill rod, bronze drill rod, round, square or hexagon; brazed and seamless tubing; "Eagle Brand" rivets and burrs and escutcheon pins; brass and iron jack chains; brass ladder chains, brass safety chains; brass butts; gilt nails; brass curtain and screw rings; ferrules; pole rings; picture chains and hooks. They have lately added to their line the Banner oil heater, and will be pleased to send dealers a booklet free of charge describing their full line of heaters.

The April number of the Cortright Metal Shingle Advocate has just been published. This is a very charming and welcome eight-page booklet, gotten out by the Cortright Metal Roofing Co., Philadelphia and Chicago. They are pleased to learn, it is announced in one of their pithy articles, that the Advocate is meeting with very widespread approval. They say that there are so many good points about the Cortright metal shingles, that their supply of argument is practically unlimited, and that everyone naturally waxes enthusiastic on this subject. Among the productions of other high-prized writers, we find that a bard has found his way into the editorial staff. We quote him as follows:

You can't place dependence on April,
A fact that's lamentably plain.
It may promise to stay a bright, sunny day,
When down comes a patter of rain.

Now there's where we differ from April,
On us you can always depend;
When we sell you a roof, it will be weatherproof,
For a Cortright's the best in the end.

NEW PATENTS.



786,269—Spirit level. Lewis M. Curry, Brighton, Mich.

786,300—Gas heater. Ephraim Laberge, Montreal, Can.

786,307—Fence post. Frank Novess, Flatrock, Mich.

786,315—Ball bearing hanger. Winfield S. Rogers, Bantam, Conn.

786,335—Saw handle. Dudlley Worden, Whatcom, Wash.

786,371—Pruning implement. Ralph J. Meyer, Grand Junction, Colo.

786,391—Window screen and ventilator. Julius Tisch and Emil Tisch, Grand Rapids, Mich.

786,400—Sanitary milk pail. Leander Barnabas, Albany, N. Y.

786,434—Sash balance and fastener. William H. Gardner, Park City, Utah.

786,439—Self heating sadiron. Mathias Hoetger, Elkhart, Ind.

786,445—Woven wire fence. Melvin D. Kilmer, Cleveland, Ohio.

786,450—Incubator. Amos A. Linebraugh and Charles Lyman, Clarinda, Iowa.

786,451—Adjustable hinge. Joseph Luppino, Los Angeles, Cal.

786,456—Hay carrier. Philip A. Myers, Ashland, Ohio.

786,455—Hay carrier. Philip A. Myers, Ashland, Ohio.

786,462—Fence post. Herbert E. Percival, Galveston, Tex.

786,525—Churn dasher. Silas C. Simons, Risingstar, Tex.

786,531—Hen's nest. Albert L. Stout, Jenkins, Okla.

786,546—Meat holder for carving platters. Harry G. Chamberlin, Chicago, Ill.

786,555—Stovepipe, flue and smokestack protector. James H. Foster, Arlie, Tex.

786,576—Mop or brush holder. John C. Look, Tudor, Cal.

786,585—Door stop. Philip J. Moran and James H. Johnson, McKees Rocks, Pa.

786,597—Fishing line and float. Helen A. Picken, New York, N. Y.

786,630—Method of securing tool handles or the like. Alfred W. Cochran, New York, N. Y.

786,666—Device for making tea, coffee or other infusions. Charles McKenzie, Butte, Mont.

786,670—Cabinet kitchen. Charles F. Parker, Washington Court House, Ohio.

786,700—Corn husking implement. John A. Wentz, Paola, Kas.

786,710—Adjustable shingle gage. Alfred Anderson, Bellingham, Wash.

786,713—Fireplace heater. Jesse D. Bacon and Thomas McGarrigal, Paducah, Ky.

786,766—Pruning implement. John G. Hunt. Lenox, Mo.

786,786—Hog ringing implement. John Gould, Sr., Clinton, Pa.

786,787—Vise. Millard F. Hudson and Edwin R. Langford, Los Angeles, Cal.

Trade Report.

CHICAGO IRON MARKET.

The situation in Western pig iron markets is about the same as last week—a very heavy demand taxing the capacity of the mills to supply, no sensational stampedes and no fluctuations in prices. In the East the demand is a little quieter than last week, and furnaces are in a better position to make prompt shipments. The output of all furnaces has been unprecedented for the last four months, and there are signs here and there that the depleted stocks of six or ten weeks ago are being rapidly filled. The requirements of the International Harvester Co., for the second half of the present year, have already been filled. Contracts let by this company during the past week involve over 50,000 tons of pig iron. More than half of this tonnage stayed North and the balance went to Southern furnaces. It is said that prices were shaded quite generally on this order.

In view of the softness developed in Eastern iron circles and the fact that the iron and steel market has progressed steadily in strength and demnad for about six months, and in view of the record-breaking shipments which have been made during that period and the very heavy production of all mills and furnaces, we are inclined to agree with reports, which declare that the iron and steel market as a whole has reached the acme of its present course and is now inclined toward weakness rather than greater strength. Our purpose is far from implying that there will be any appreciable slump either in demand or prices during the next six or ten months, but we do feel that the prices will not be advanced and that unless production is curtailed to some extent, it will exceed the consumption.

Billets and bars have not changed from the aspect which they assumed a month ago and have continued ever since. Axle billets are selling particularly well and 3,000 tons were purchased last week for immediate shipment by a local forging company. Specifications for steel shapes continue to the full capacity of the mills. The Chicago price for bar iron is 1.60c, though this price is very weak.

Plates and structural steel are in greater demand than the full running capacity of the mills can possibly fill. Some of the subsidiary companies of the steel corporation have withdrawn from the market, deflecting a constantly increasing tonnage toward the independent mills and jobbers.

Merchant steel and merchant pipe present a very flattering outlook with orders coming in as rapidly as manufacturers could hope for. Mills are taking very little new business owing to the crowded condition of their order books.

PIG IRON.

Matthew Addy & Co. will say in their weekly report:

The most important news of the week is the announcement of the March statistics, showing a reduction in the merchant furnace stocks last month of more than 31,000 tons. This reduction in the face of a largely increased production is significant. It shows that the consumption of pig iron is at flood tide. It also shows that iron is being shipped out from the furnaces at a faster rate than it is being made. When a careful analysis is made of production it is seen that the increase is not in foundry iron, but in iron intended for use in steel manufacture—Basic and Bessemer. There has been no increase whatever, or at least none worth mentioning, in the output of foundry irons. Taking the matter as a whole, the amount of iron on hand at the furnaces is less than a week's supply. In fact this available stock is a mere bagatelle, and indicates that the consuming interests of the country are dependent on shipments from day to day to keep running. Were anything to happen to shut down even a small number of furnaces there would at once be a shortage which would compel consumers in various parts of the country to either shut down or largely curtail their operations. These March statistics have been awaited eagerly by both producers and consumers, and they cannot fail to very materially strengthen the market, being so decidedly on the right side of the ledger.

In regard to actual business during the week, it is difficult to say a great deal because there are no new features. Trade has been just as it has been for the past month or six weeks. That is, there is a steady and continuous buying of all kinds of iron. This purchasing has no particularly noticeable features. The largest orders of the week have been iron for the making of pipe. Numerically speaking, most of the orders that have been placed have been for lots of 500 tons and less.

In regard to delivery, more spot iron has been bought than anything else. By spot iron we mean iron for shipment over the next thirty to sixty days, although there have been purchases for all kinds of deliveries through the balance of the year.

There are good inquiries in the market, and there is no reason to expect anything but that the present highly satisfactory state of affairs will continue.

SHEETS AND TIN PLATES.

The demand for galvanized sheets and tin plate continues at a very good rate, and the large number of telegraphic orders showing the extreme necessity on the part of the buyer is quite noticeable.

New prices on galvanized elbows went into effect this week, a detailed list of which was published in THE AMERICAN ARTISAN of April 8th. There is consider able complaint on the part of buyers as to the slowness of shipments of pipe and gutter. Conditions are improving somewhat at present.

It is intimated that there will be an advance on tin plate which may occur in the near future. Tin plate can now be bought for delivery during July, August and September at the present prices.

The sheet situation remains about the same.

As previously predicted, prices on solder are continuing to advance, but some jobbers having large stocks on hand are willing to let in a few of their favored customers at the old figures.

John McVoy & Co., Chicago, quote for prompt acceptance the following prices on regular sizes:

Black Sheet Steel—16 gauge, $2.60; 18-20 gauge, $2.65; 22-24 gauge, $2.70; 26 gauge, $2.75; 27 gauge, $2.80; 28 gauge, $2.90; 29 gauge, $3.10. Woods Smooth—20 gauge, $2.90; 22-24 gauge, $2.95; 26 gauge, $3.00; 27 gauge, $3.05; 28 gauge, $3.15. Polished Sheet Steel—24 gauge, $4.85; 26 gauge, $4.95; 27 gauge, $5.05; 28 gauge, $5.15. Galvanized Sheets (Regular Sizes)—14-16 gauge, $3.10; 18-20 gauge, $3.10; 22-24 gauge, $3.25; 26 gauge, $3.50; 27 gauge, $3.70; 28 gauge, $3.90; 29 gauge, $4.40; 30 gauge, $4.85; 36 inches wide on No. 20 and lighter, 20c per 100 lbs. advance. Sheets other than 8-ft. lengths take a slight advance over above figures. On 48 inch wide material, either 96 or 120 long, 16 gauge, $3.90; 18 gauge, $4.20; 20 gauge, $4.85.

Painted Corrugated Iron—Basis 28 gauge, $2.15 per square. Galvanized Corrugated Iron—28 gauge, $3.30 per square, with the usual differentials for other gauges.

NEW PRICES ON ELBOWS.

John McVoy & Co., Chicago, quote effective at once the following official list prices and discounts on conductor pipe, elbows and shoes. The discount has been changed to 60 and 10 % on all items except copper, on which the discount is 37½%.

ROUND, CORRUGATED AND PLAIN ROUND ELBOWS AND SHOES.

	Galv. Steel or Tin.		Galv. C. C. Iron.		14-oz. Copper.		16-oz. Copper.	
	Elbows.	Shoes.	Elbows.	Shoes.	Elbows, 0, 1, 2, 3.	Shoes and No. 4 Elbows.	Elbows, No. 3.	Shoes and No. 4 Elbows.
2" List ea	.25	.30	.38	.45	.75	.90	.80	.94
2½" " "	.30	.36	.45	.54	.95	1.15	1.00	1.20
3" " "	.30	.36	.45	.54	.95	1.15	1.00	1.20
3½" " "	.40	.48	.60	.72	1.25	1.50	1.30	1.56
4" " "	.40	.48	.60	.72	1.25	1.50	1.30	1.56
5" " "	.60	.72	.90	1.08	1.70	2.05	1.80	2.16
6" " "	.72	.86	1.08	1.30	2.40	2.90	2.50	3.00

SQUARE CORRUGATED ELBOWS AND SHOES.

	Galv. Steel or Tin.		Galv. C. C. Iron.		14-oz. Copper.		16-oz. Copper.	
	Elbows	Shoes	Elbows	Shoes	Elbows	Shoes	Elbows	Shoes.
2" List ea.	.40	.48	.60	.72	1.15	1.35	1.20	1.45
3" " "	.45	.54	.67	.81	1.45	1.70	1.50	1.80
4" " "	.60	.72	.90	1.08	1.90	2.25	1.95	2.35
5" " "	.90	1.08	1.35	1.62	2.60	3.10	2.70	3.25

CHICAGO HARDWARE SCRAPS.

Manufacturers and jobbers of hardware in all sections of the country report unusual activity in the demand for almost all lines. Ever and anon, however, we hear that manufacturers of shelf wares and tools are complaining that orders for these goods are not up to expectation. Still, indications point to a very successful year's trade in these lines also, and jobbers predict that a decided improvement will be noted even before the end of the present month.

We believe that this heavy demand is caused in part by the fact that retailers realize that manufacturers are looking forward to a consistent and concerted advance in prices, though there is absolutely no question but what there actually exists an unusual demand for hardware on the part of consumers. This demand is reflected by retailers, and, combined with orders which result from the anticipation of an advance in prices, is bringing about the very heavy orders with which jobbers are being flooded.

The settlement of the controversy between carpenters and contractors in Chicago is leading to more settled conditions in the building trades, and a large number of orders have been received by dealers for goods in this line.

The window glass market is extremely strong, though the demand is only moderately active. Independent manufacturers claim that their supply is so well sold up that they will not have any stock with which to fill orders which may be received between now and July. These firms declare that they expect to go out of blast about the first of May. Moreover, there are rumors of unrest among the employes, and it is said that the snappers are ready to strike at a moment's notice.

The three successive advances in spirits of turpentine coming on April 7th, 10th and 11th were so sharp that to those who were fortunate enough to have good-sized stocks of this product the situation appeared essentially humorous. The sum total advance represented a difference of $3.00 per barrel. However, all things considered, the price of spirits is not out of due proportion. The stock in Savannah on April 1st, the opening day of the new season, was only a little over 5,000 barrels, and the price now is only 2 cents over what it was a year ago when the stock was more than 6,000 barrels. The syndicate is in full control of the market, owns all the spirits in stock and is entitled to all receipts up to June 1st. It has been storing turpentine at a loss for a long while, and now that the consumption is heavy it is beginning to exercise its rights of control by raising prices.

Hibbard, Spencer, Bartlett & Co., jobbers in hardware, Chicago, announce the following price changes for the week under review:

RAKES.

LAWN.

Gibbs', per dozen.....$3.70

HINGES.

SCREW HOOK AND STRAP.

6 to 12 in., per 100 lbs.....$3.65
14 to 20 in., per 100 lbs..... 3.40
22 and 24 in., per 100 lbs..... 3.15

SCREW HOOK AND EYE AND EXTRA HOOKS.

½ in., per 100 lbs.....$9.45
⅝ in., per 100 lbs..... 7.60
¾ in., per 100 lbs..... 6.55

Current Hardware and Metal Prices.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box
IC	14x14	$10 50
IC	14x20	7 15
IX	14x20	8 40
IXX	14x20	9 60
IXXX	14x20	11 85
IXXXX	14x20	13 10
IC	20x28	14 50
IX	20x28	16 50
IXX	20x28	18 95
IXXX	20x28	21 35
IXXXX	20x28	23 75

COKE PLATES.

Cokes, 180 lbs.	IC	20x28	$9 00
Cokes, 200 lbs.	IC	20x28	9 35
Cokes, 216 lbs.	IC	20x28	9 75
Cokes, 216 lbs.	IX	20x28	11 70

PIG IRON.

Lake Sup. Charcoal	$18 50@$19 00
North'n Coke Fdy., No. 1	18 00
North'n Coke Fdy., No. 2	17 50
North'n Coke Fdy., No.	17 00
Northern Scotch, No. 1.	18 50
Ohio Strong Softeners, No. 1	19 30@ 19 80
Ohio Strong Softeners, No. 2	18 80@ 19 30
Southern Silvery, 4 to 6 per cent Silicon	18 65@ 19 65
Southern Coke, No. 1	17 65@ 17 90
Southern Coke, No. 2	17 15@ 17 40
Southern Coke, No. 3	16 65@ 16 90
Southern Coke, No. 4	16 40@ 16 65
Southern Coke, No. 1, Soft	17 65@ 17 90
Southern Coke, No. 2, Soft	17 15@ 17 40
Southern Gray Forge	16 50@ 16 75
Southern Mottled and White	15 90@ 16 15
Malleable Bessemer	1750
Standard Bessemer	18 50@ 19 00
Jackson County & Kentucky Silvery, 6 to 8 per cent Silicon	20 30@ 22 80
Jackson County & Kentucky Silvery, 10 per cent Silicon	23 30
Alabama Basic	17 15@ 17 40
Virginia Basic	17 15@ 17 40

BLACK SHEET STEEL.

No. 16	per 100 lbs. $2 55
No. 18-20	per 100 lbs. 2 60
No. 22-24	per 100 lbs. 2 65
No. 25-26	per 100 lbs. 2 70
No. 27	per 100 lbs. 2 75
No. 28	per 100 lbs. 2 85
No. 29	per 100 lbs. 3 05

POLISHED SHEET STEEL.

No. 24	per 100 lbs. $4 60
No. 26	per 100 lbs. 4 70
No. 27	per 100 lbs. 4 80
No. 28	per 100 lbs. 4 90

SMOOTH STEEL.

Wood's Smooth, No. 20	$2 90
" " No. 22-24	2 95
" " No. 25-26	3 00
" " No. 27	3 05
" " No. 28	3 15

PATENT PLANISHED SHEET STEEL.

Patent Planished Sheet Steel. "A" $10 20, "B" $9 20

GALVANIZED IRON.

Regular Sizes.

No. 16, per 100 lbs	$3 20
Nos. 18 & 20, per 100 lbs	3 35
Nos. 22 & 24, per 100 lbs	3 50
No. 26, per 100 lbs	3 70
No. 27, per 100 lbs	3 90
No. 28, per 100 lbs	4 10
No. 30, per 100 lbs	5 00
Nos. 22 & 24 x 36 in., per 100 lbs.	3 70
No. 26 x 36 in., per 100 lbs	3 90
No. 27 x 36 in., per 100 lbs	4 10
No. 28 x 36 in., per 100 lbs	4 30

SOLDER.

XXX Guaranteed ½ & ½	per lb. 20½c
Commercial ½ & ½	per lb. 19c
No. 1 Plumbers	17¾c

SHEET ZINC.

600 lb. Casks	case, per cwt. $7 90
300 lb. Casks	per cwt. 7 95
Sheets	per cwt. 7 70

COPPER.

Copper ... base, 21c

TIN PIGS AND BARS.

Banca, pigs, per lb.	35@35½c
Straits, pigs, per lb.	35c
Straits in bars, per lb.	37c

LEAD.

American Pig	$4 60@$4 62½
Bar	6¼c
National (White) brands (in less than 100 lb. lots), per lb.	7¼c
Sheet.	
Full coils	per 100 lbs. $7 00
Cut coils	per 100 lbs. 7 25

HARDWARE.

ADZES.

Carpenters'.	
Ajax	35&15%
Blood's	40&2½%
Hunt's	25%
White's	12½%
Coopers'.	
Barton's	20%
White's	15%
Ship.	
Ajax	33⅓%
Blood's	37½%
Hunt's	25%
White's	12½%

AMMUNITION.

Caps, Percussion—per 1,000.	
F. L. Waterproof, 1-10s	40c
G. D.	35c
Eley's	52c
Cartridges.	
Peters Rim Fire Ctgs.	50&3%
Peters Cent Fire, Pistol and Rifle	25&3%
Peters Cent Fire, Military and Sporting Ctgs.	15&8%
Peters Blank Ctgs. 22 cal.	$1 24
Peters Blank Ctgs. 32 cal., C. F.	4 60
Peters BB Caps, Round ball	1 50
Peters BB Caps, Conical ball	1 95
Winchester Cent. Fire, Military and Sporting Ctgs	15&8%
U. M. C. BB Caps, Con. ball	$1 85 net
U. M. C. Rim Fire Shot Ctgs.	50&15&3%
U. M. C. Cent. Fire Shot Ctgs.	25&15&3%
Primers.	
Berdan Primers	$1 00
Peters Primers	20%
Winchester Primers	20%
Shells.	
Peters Empty Paper Shells, 10 and 12 gauge. League	25&2%
Peters Empty Paper Shells, 16 gauge. League	20&2%
Ideal Empty	25&7%
Peters Target and High Gun Smokeless	40&6%
Peters Premier and Ideal Smokeless	40, 10, & 10%
Peters Loaded Shells, League	40&2%
Peters Referee Semi-Smokeless	40&2½%
Winchester Blue Rivals / Winchester Yellow Rivals	40&1%
Winchester Repeater	20&2%
Winchester Leader	40&6%
U. M. C. Loaded Shells, Black Powder / Winchester Loaded Shells, Black Powder	40&1% full cases
Gun Wads—per 1,000.	
Peters Gun Wads	20%
U. M. C. Gun Wads	18%

Powder.			Each
King's Smokeless, kegs			$11 30
"	"	½ kegs	5 80
"	"	¼ kegs	2 97
"	"	1-lb. cans	51
"	"	1-lb. " rifle	70
Dupont's	"	50-lb. drum	22 45
"	"	25-lb. kegs	11 35
"	"	12½-lb. kegs	5 80
"	"	6¼-lb. kegs	2 97
"	"	1-lb. cans	51

Shot.	
Drop shot, sizes smaller than B, 25-lb. bags, per bag	$1 65
Drop shot, B and larger sizes, 25-lb. bags, per bag	1 90
Buck Shot, 25-lb. bags, per bag	1 90
Chilled Shot, 25-lb. bags, "	1 90

ANCHORS.

Expansion Screw Anchors ... 10%

ANVILS.

Trenton, 70 to 80 lbs.	9½c per lb.
Trenton, 81 to 150 lbs.	9c per lb.

AUGERS.

Boring Machine	70&5%
Irwin's	40&10%
Carpenters' Nut	70&5%
Hollow.	
Ives's New Pattern	25%
Bonney's—list $30.00	75&5%
Stearn's, No. 1	per doz. $42 00
Stearn's, No. 2	" 33 50
Post Hole.	
Dalbey, 8-in.	per doz. $5 75
Digwell, 8-inch	" 13 00
Howe's, 6 and 8-inch.	" 11 00
Iwan's Improved	40&5%
Vaughan's, 4 to 9-in., per doz.	6 50
Rafting.	
Snell's	60&5%
Ship.	
Ford's, with or without screw	40-5%
Snell's, " " "	40-5%

AWLS.

Brad.	
Handled	per doz. $0 28
Shouldered, assorted, 1 to 4,	per gro. 95
Patent ass't'd, 1 to 4	" 90
Harness.	
Common	" 1 10
Patent	" 90
Peg.	
Shouldered	" 95
Patent	" 40
Scratch.	
No. 2, handled	" 4 40
No. 1, socket handled	per doz. 1 15
No. 20 Hurwood	" 2 00
Sewing.	
Common	per gro. 90
Patent	" 90

AXES.

Boy's Handled.	
Camp Fire, 3 lb.	per doz. $6 00
" " 4-lb., freighters',	per doz. 7 85
Cast Steel, good grade,	" 5 80
Pioneer	" 7 00
Broad.	
Peerless	40&5%
Red Warrior	per doz. $27 00
Firemen's	" 1 50
Handled.	
Gladstone, 3 to 4 lbs., per doz.	$11 25
Hunt's " " "	9 50
Lippincott's " " "	9 50
Pioneer " " "	10 25
Valley Forge " " "	9 50
Maricopa " " "	8 25
Single Bitted (without handles).	
Gladstone, per doz. 3 to 4 lbs.	$8 50
Hubbard's conc. " "	7 00
Hunt's " "	7 00
Lippincott's " "	7 00
Mann's " "	7 00
Pioneer " "	7 50
Valley Forge " "	7 00
Second Quality " "	7 00
Maricopa " "	6 25
Double Bitted (without handles).	
Lippincott's, 3 to 4 lbs. per doz.	$9 00
Mann's " "	9 00
Pioneer " "	9 50
Valley Forge " "	9 00

The above prices on axes of 3 to 4 lbs. are the base prices.
3½ to 4½ lbs. advance 25c.
4 to 5 lbs. advance 50c.
4½ to 5½ lbs. advance 75c.

BALANCES, SPRING.

Frary's	50%
Pelouze	20%

BAGS, PAPER NAIL.

Pounds	3	5	10	16	20	25
Per 1,000	$1.60	1.85	2.60	3.00	3.90	4.75

BARS, CROW.

Pinch or Wedge Point ... cwt. $2 95

BASKETS.

Clothes.			
Small Willow	per doz.		$6 00
Medium "	"		6 75
Large "	"		7 75
Galvanized Iron.	½ bu.	1 bu.	1½ bu
Per doz.	$4 00	5 50	7 00

BEAMS, SCALE.

P. S. & W. Co. ... 40%

BEATERS.

Carpet.	
Rattan	per doz. $2 40
Raymond's Steel Wire	" 80
Woven Wire, No. 4	" 1 10
Egg.	Gro.
No. 60 Improved Dover	$6 00
No. 75 Improved Dover	6 50
No. 100 Improved Dover	7 00
No. 102 Improved Dover Tin'd	8 50
No. 150 Improved Dover, Hotel	15 00
No. 152 Improved Dover, Hotel Tin'd	17 00
No. 200 Imp'd Dover Tumbler.	8 50
No. 202 Imp'd Dover Tumbler Tin'd	9 50
No. 300 Improved Dover Mammoth, per doz	25 00

BELLOWS.

Blacksmiths'	70&5%
Hand.	
8 inch	per doz. $6 85
10 inch	" 8 40
Molders'.	
12 inch	" 13 00

BELLS.

Call.	
2½ in. nickeled bell	per doz. $1 35
2½ in. " brass bell	" 3 60
3 in. " " "	" 7 50
3 in. " silver alloy bell	per doz. 16 50
4½ in. nickeled brass bell and base	per doz. 14 50
Cow.	
Ordinary Goods	70&5%
High Grade	60&10%
Jersey	70&10%
Door.	
Bigelow Automatic	per doz. $9 50
Rotary.	
3 in. bronzed iron bell	" 5 25
3 in. nickeled " "	" 7 50
3½ in. " " "	" 9 00
Hand.	
Hand Bells, polished	60@60&10%
White Metal	50%
Nickel Plated	40%
Swiss	60&5%
Silver Chime	33⅓%
Miscellaneous.	
Church and School, steel alloy	70, 10&5%

Farm, lbs.	40	50	75	100
Each	$1.10	1.30	1.85	2.65

BEVELS, TEE.

Stanley's, rosewood handle, new list	40&5%
Stanley's iron handle	40&5%

BINDING, OILCLOTH.

Zinc	75&10%
Brass	75%
Brass Plated	75&10%

BITS.

Auger.	
Extra Double Spur	70&10%
Ford's Car and Machine	40&10%
Ford's	40&5%
Ford's Ship	40&5%
Irwin	50&5%
New Jenning's	55%
Russell Jenning's	25&10%
Clark's Expansive	60%
Steer's " Small list, $22.00	30%
" Large " $36.00	30%
Irwin Car	45%
Snell's Car	50&5%
" Ship	40&5%
Ford's " Auger pattern Car	40&5%
Center	40&10%
Countersink.	
Wheeler's	per doz. $1 30
American Snail head.	" 70
" Rose "	" 80
" Flat	" 70
Buck Bros.' Flat	" 2 60
German	" 70
Dowel.	
New Jennings	40&10%
Gimlet.	
Standard Double Cut	50&5@50&10%
German Pattern	per doz. $0 48
Gouge	" 80
Spoon	" 80
Countersink	" 1 30

Reamer.
Buck Bros.' ½ Round.. " 2 75
" " Square . " 2 50
Standard ½ Round .... " 75
" Square ..... " 75
German Octagon..... " 75
Screw Driver.
Round Shank..... " 48
" " extra
quality ..... " 1 40
Square Shank ..... " 1 10

BLACKING, STOVE. (See Polish)

BLADES, SAW.

Butchers'.
Standard ¾ & 1¼ in.....60&5¢
Clock Spring.....60&5¢
Star .....20¢
Hack.
Disston's .....25&5¢
Griffin's .....35&5¢
Star .....20¢
Wood.
Jackson's .....per doz. $2 25
Disston's—No. 6, 16, 26 & 045.. 4 20
No. 11 ..... 6 30
W. M. & Co 's No. 20..per doz. 5 50

BLOCKS.

Snatch.
Wooden .....55&10¢
Steel .....40&10¢
Tackle.
Wooden .....70&5¢
Steel .....50, 10&5¢

BOARDS.

Stove.....40¢
Wash.
Globe .....per doz. $2 55
Banner..... " 2 90
Crystal Glass..... " 3 40
Brass King..... " 3 40
Nickel Plate ..... " 3 40
Enamel King..... " 3 40

BOBS, PLUMB.

Carpenters'.
8½ oz. iron.....per doz. $0 65
1½ lb. " ..... " 1 60
2½ lb. " ..... " 1 80
18 oz. lead ..... " 3 00
6½ oz. brass..... " 3 30
Masons'.
3 lb. lead..... " 4 00

BOLTS.

Carriage, Machine, Etc.
Carriage ⅝x6 and sizes smaller and shorter.....75¢
Carriage, sizes larger and longer than ⅝x6 .....70&5¢
Machine, ⅝x4 and sizes smaller and shorter.....70&5¢
Machine, sizes larger and longer than ⅝x4.....70&2½¢
Elevator.....50-10&5¢
Plow.....60&10¢
Stove .....80&10¢
Tire .....75&10¢
Wagon Box Strap .....70&10¢
Mortise Door.
Gem.....50-10&5¢
Ives'.....50&10¢
Barrel.
Cast .....50¢
Wrought .....50&5¢
" Bronzed.....75&5¢
Flush.
Wrought, B K .....40&5¢
Spring.
Wrought .....75&10¢
" Brass .....75&10¢
Square.
Cast.....40¢
Wrought .....60-10&10¢
Tire.....72&½¢

BORERS.

Angular.
Miller's Falls..... per doz. $13 75
Bung.
Common ring with handle.
Inches..... 1½ 1¾ 2
Per doz.....$6.00 6.90 8.10
Enterprise Mfg. Co., No. 1 List $1.50; No. 2, $2.00 each...25, 10 & 5¢

BOXES.

Mail, No..... 5 10 20
Per doz..... $3.65 10.50 13.00
Miter.
New Langdon.....15&5¢
Olmsted's .....15¢
Stanley's.....30¢
Seavey's ....per doz. $5 00

BRACES.

Common Ball, American....$1.15@1.25
Barber's .....50&10&10@60&10¢
Fray's Genuine Spofford's.....60¢
Fray's No. 70 to 120, 81 to 123, 207 to 414.....60¢
C. E. Jennings & Co.....50&5¢
Mayhew's Ratchet.....60¢
Mayhew's Quick Action Hay Pat.....50¢
Millers Falls Drill Braces..25&10¢
P.S.&W.Co..Peck's Pat 60&10@65¢

BRACKETS.

Hay-Rack.
Wenzelmann's No. 1 per doz. $9 75
" No. 2 " 10 50
Shelf.
Cast Iron, Japanned.....50, 10, 10¢
Stanley's Wrought Steel 70-10&2½¢
Wire .....80, 10&5¢

BROILERS.

Wire..... .....70&10¢
Crown, Self-Basting, No. 80. doz. $2 90

BUCKETS.

Pump Rubber.
Wychoff.....per gr. $4 75
Cooper..... " 5 50
Champion ..... " 7 50
Victor ..... " 9 50
Star..... " 5 00
IXL ..... " 6 75
Well.
Galv'd Qts..... 10 12 14
Per doz..... $2.75 $3.00 $3.25
Wooden, top ear, plain, per doz 3 75
" " swivel " 4 85
" side-strap, plain " 3 85
" " swivel " 4 95

BUCKS, SAW.

Folding .....per doz. $2 10

BURS, RIVETING.

Copper Burs only.....35-10&5¢
Tinners' Iron Burs only.....70¢

BUTTS.

Cast Iron.....65&10¢
Wrought Brass.....20¢
Wrought Steel Bright—Nos. 800, 804, 808, 810, 814 and 834.. .75&10¢
Nos. 838, 840 and 843.....75-10&10¢
Nos. 822 and 823.....80-20&10¢
Wrought Steel, Japanned.
Nos. 731 and 737.....70&10&10¢

CALIPERS.

Double .....40&10¢
Inside and Outside.....40&10¢
Wing .....40&5¢

CALKS.

Logger's Boot.
(Lufkin R. Co.'s), per M.....$3 65
Toe.
Shoenberger.....per lb 5 c
Bessemer..... " 5½c
American ..... " 7½c
Swedes..... " 8½c

CANS.

Cheese Factory Can Stock.
Gallons.... 15 20 30 40
Per set.... $2.85 $3.05 $3.25 $4.40
Milk.
Elgin Pattern.
Nos..... 808 810
Gals..... 8 10
Per doz..... $25.50 $34.00
New Elgin Pattern.
Eureka Pump, 5 gal.....$9 25
Wood Jacket.....50, 10&10¢
Nos..... 105 108 110
Gal. each .. 5 8 10
Per doz.... $15.75 $18.00 $18.75
Iowa Pattern.
Nos..... 608 610
Gal 8 10
Per doz..... $20.50 $21.50
New York Pattern.
Nos..... 908 910
Gal. each..... 8 10
Per doz..... $25.15 $26.95
Oil and Gasoline.
1 Gal. glass, Daisy....per doz. $2 10
1 " cushioned " 3 15
Star, gals..... 1 2 3
Per doz..... $1.60 $2.60 $3.35
Per doz.
Sterling Tilting, 5 gallon.....$ 7 80
"High C" Pump, " 9 00
Eureka Pump " 12 00
Wooden Jacket..... .....60&10¢

CAN OPENERS.

See Openers.

CAPS, GUN.

See Ammunition.

CARPET STRETCHERS.

See Stretchers.

CARRIERS.

Hay.
Myers' Imperial.....each $3 50
" Clover Leaf..... " 3 50

CARTRIDGES.

See Ammunition.

CASTERS.

Acme—Ball Bearing.....35¢
Bed.....60, 10&5¢
Common Plate.
Brass Wheel.....60&10¢
Iron and porcelain wheels, 60, 10&5¢
Philadelphia Plate .....70&5¢
Martin's.....50&10¢
Payson's.....70&10¢
Tucker's, Wood & Iron Wheel.25&5¢
" Rubber Wheel.....15¢
CATCHERS, GRASS.
Lieder's No. 1.. .....per doz. $6 25
Eureka ..... " 4 25
Ideal No. 4..... " 6 50

CHAIN AND CHAINS.

Breast Chains.
Doubleslack .....doz. pairs $5 75
With Covert snaps. " 5 00
With slide..... " 3 25
Without slide..... " 2 85
Bright Ox Chains.
5/16 in. $5.65; ⅜ in. $5.40 per 200 lbs.
Cable Coil Chain.
Inch..... 5/16 ⅜ 7/16 ½
Per 100 lbs.. $6.30 $6.50 $5.40 $4.60
Inch..... 9/16 ⅝ ¾ ⅞
Per 100 lbs.. $4.40 $4.30 $4.15 $4.05
Inch..... ⅞ 1 1¼
Per 100 lbs.. $4.00 $4.00 $4.10
Cable Log Chain.
Advance 35c per 100 lb. on Cable Coil
Cow Tie Chains.
American 2 toggle.....50&5¢
" toggle and snap...50&5¢
" open & closed ring, 50&5¢
Halter Chains.
American, new list.....33⅓¢
German.....60-10&5¢
Niagara, new list .....40&5
Triumph, " .....30¢
Picture Chains.
Light Brass, 3 ft.....per doz. 63c
Heavy Brass, 3 ft..... " 75c
Pump Chain.
Galvanized, per 100 lbs.....$4 75
Safety Chain.
Brass.....60&10¢
Special Steel Loading Chain.
Inch ..... ⅜ 7/16 ½
Per 100 lbs... $16.00 $13.50 $12.50
Stretcher Chains.
5/16 in. $8.50; ⅜ in. $7.75 per 100 lbs.
Tie-Out Chains.
Brown's .....70&10¢
Trace Chains.
Western Standard.
6½— 6-2.....per pair 30c
6½— 8-2..... " 34c
6½— 8-3..... " 33c
6½—10-2..... " 38c
7 — 8-2..... " 38c
7 —10-2..... " 42c
7 —10-1 ..... " 48c
7 —10-0..... " 60c
Add 2c per pair for Hooks.
Add 2c " for Twist Link.
Wagon Stay Chains.
Inch..... ½ 7/16 ⅝
Per 100 lbs... $6.50 $6.00 $5.50

CHALK, CARPENTERS'.

Blue.....per gross 58c
Red..... " 48c
White..... " 38c
Common White Sch'l Crayon..... " 5½c

CHARCOAL

In barrels.....per bu. 21c

CHECKS, DOOR.

Blunt .....30¢
Blum-Jap'd, $6.25; Brzl., doz....$7.00
Columbia.....50, 10&5¢

CHIMNEY TOPS.

Iwan's Volcano.....50¢

CHISELS.

Box,
Inches..... 10 12 14
Round, per doz. $2.10 $2.25 $2.75
Flat " 2.85 3.60 4.20
Cold.
Good quality.....per lb 10@19c
Socket, Framing and Firmer.
Barton's.....20¢
P. S. & W. Co.....70¢
For beveled back, add per doz. .60c
Tanged, Firmer.
P. S. & W. Co.'s.....35&5¢
With handles, add per doz.....60c
Choppers, Enterprise Meat.
No. 12.....$2 75
No. 22..... 4 50

CHUCKS, DRILL.

Standard Tool Co.'s.....40¢
Goodell's, for Goodell's Screw Drivers.....per doz. $6 25
Yankee, for Yankee Screw Drivers..... 5 00

CHURNS.

Anti-Bent Wood, Gal.. 5 7 10
Each.....$3.90 $4.15 $4.40
Belle, Barrel.....70&5¢
Common Dash, Gal.. 4 5 6
Per doz.....$7.75 $8.50 $10.50
Hero.....70¢
Union, Gal..... 5 7 10
Each..... $3.65 $3.90 $4.75

CLAMPS.

Adjustable.
Martin's.....40¢
Carpenters'
Steel Bar.....30¢
Carriage Makers'
P. S. & W. Co.'s.....40, 10&5¢

Hose.
Sherman's, brass, ¾ in., per doz..33c
Double, brass, ¾ in., " 65c
Saw Filers.
Disston's list, $30.00.....30¢
Stearn's, No. 0, $3.50; No. 1, $41.50; No. 3, $5.50 doz.
Wentworth's.....40¢

CLAWS, TACK.

Cast, wood hdle.....per doz. 45@60c
Forged steel, wood hdle " $0.80
Solid Steel..... " 1.60
Giant..... " .60

CLEANERS.

Drain.
Iwan's Adjustable.....50¢
Iwan's Stationary.....40¢
Pot.
Wire..... per doz. $0.45
Side-walk.
Steel..... per doz. $3.15
XLCR.....65&5¢

CLEAVERS.

Family.
Ajax, In..... 6 7 8
Per doz..... $5.50 $5.75 $6.25

CLEVISES.

Malleable ....per lb 3½c

CLIPPERS.

Bolt.....$1.90@$4.75

CLIPS.

Axle.....65&5¢
Damper.
Standard.....per doz. 70c
Troy..... " 38c
Hame..... " 20c

CLOTH.

Emery.
Ajax..... 50&10¢
B. & A..... 50¢
Hardware Wire—full rolls (100 ft.)
2 to 8 mesh black, per 100 sq. ft..$1 85
9 to 12 " " " " 2 15
2 to 8 " galv. " " 2 70
7 and 8 " " " " 3 25
An extra charge is made for 50 ft. lengths, and a still farther advance for smaller pieces.
Screen Wire.
12 mesh, painted, per 100 sq. ft..$1 25
14 " " " " 1 80

COCKS AND FAUCETS.

Compression Plain Bibbs...60-10-2½¢
Lever Bibb Cocks.....70¢
Compression Hose Bibbs.....60-10¢
Telegraph Faucets (new list)...50-5¢
Racking Cocks (new list).....70-5¢
Compression Lock C'ks(n'w list)70-5¢
No. 65 Brass Liquor Cocks, doz.. $9.15
Andrew's Brass Faucets .....70¢
Angle Plug Faucets, per doz....$0.85
Milk Can Faucets, per doz...$2.60-4.20
Petroleum Faucets (new list)....70¢

COFFEE MILLS.

Enter. Mfg. Co., list Jan. 17, '93..25¢
Parker's.....50¢
Arcade.....60&10¢

COLLARS, STOVE PIPE.

Inches..... 5 6 7
Plain Tin....per gro. $2.50 $2.80 $3.75
Japanned Tin " 3.90 4.20 5.40
Lacquered Brass " 3.30 3.60 4.80

COMBS, CURRY.

Nos.... 000 20 321 330 417 416
Per doz.$0.32 .80 1.00 .95 .80 1.00
Nos.... 531 532 530 535 545 390
Per doz.$0.96 1.20 1.10 1.65 1.40 1.30

COMPASSES.

Carpenters'.....70¢
Pencil—Faber's.....per doz. $1.00

CONDUCTOR PIPE, GALVA.

L. C. L. to dealers

Territory	Nested	Not Nested
A, Eastern...	75&5¢	75¢
B, Eastern...	75&10¢	75&5¢
Central.....	75&5¢	70&10&5¢
Southern.....	70&7½¢	70&2½¢
S. Western...	70&5¢	70¢

Terms, 60 days; 2¢ cash 10 days.
Factory shipmh'ts generally deliverd
See also Eave Troughs.

COPPER—See Metals.

COPPERS.

Soldering.
1 lb.....per lb 31c
1½ lb.....28c 2 lb.... " 27c
3 lb and larger..... " 25c

CORD.

Picture.
White Wire—last October 1901 .....80&10¢
Sash.
Baltic Braided Flax.....per lb 20c
Silver Lake, white 7-32 in. " 29c
" " " 8-32 in. " 29c

CORKSCREWS.

Humason & Beckley.....33⅓¢
Walker's.....33⅓¢
Williamson's Regular.....50¢
Williamson's Forged Worm.....50¢

COTTERS, SPRING.

All sizes—new list.....90&10¢

COUPLINGS, HOSE.

Brass.....per doz. $1.00
Brass Plated..... " .85

COVERS, WAGON—See Tents.

CRADLES, GRAIN.

Morgan's Grapevine...per doz. $22.25

CRAYONS—See Chalk.

CROW BARS.

Pinch or Wedge Point, per 100 lbs. $3.00

CUTTERS.

Meat.
Enterprise Nos. 5, 10, 12, 22, 32 and 42.....25¢
No. 100, list, $18.00.....40&10¢
Nos. 2 and 4.....35¢
Ideal.....per doz. $0.75
Universal... Nos. 1 2 3
Per doz.....$10.75 $13.00 $18.00
Pipe.
Sandwoods...No. 1 2 3
Each..... $0.85 $1.50 $4.00
Slaw and Crout.
3-knife Crout.....per doz. $9 75
1-knife Slaw..... " 1 65
2-knife " ..... " 2 25
Washer..... " 7 75

DAMPERS, STOVE PIPE.

Standard.....50&10¢
American.....40&10¢

DIES, STOCKS AND

Discount .....40&10¢

DIGGERS.

Post Hole.
Acme.....per doz. $8 75
Atlas..... " 8 25
Eagle..... " 5 75
Eureka..... " 6 25
Hercules..... " 9 75
Iwan's Split Handle.. " 8 00
Iwan's Perfection..... " 8 00
Ryan's..... " 17 00
See also Augers—Post Hole.

DOOR CHECKS—See Door.

DOORS, SCREEN.

¾ in. 4-panel painted, per doz. $6 85
1¼ in. " " " 7 50
1¼ in. 3-panel natural pine, fancy.....per doz. 11 50

DOOR HANGERS—See Hangers.

DRILLS.

Bit Stock.....60¢&65&5¢
Blacksmith's Twist.....60¢
Breast.
Common.....each, $2 25
Millers Falls..... " 2 10
Hand
Goodell's Automatic.
Nos.....01 03 3 20
Per doz..$7.75 $12.50 $14.25 $11 00
Goodell's Single Gear per doz. 16 00
Millers' Falls " " " 12 75
" " Double " " 15 25
Reciprocating
Goodell's.....per doz. $ 4 00
Bit Stock.
Standard List...60&5¢@60¢@10¢

DRIVERS, SCREW.

Hurwood.....40&10¢
Standard.....65&10¢
Ajax.....70&5¢
Champion.....50¢
" Pattern.....60, 10&5¢
Clark's Interchangeable.....33⅓¢
Edison.....60¢
Reed's Lightning.....50¢
Goodell's Spiral.....50, 10, 5&2½¢
Yankee Ratchet.....50¢
" " Spiral.....50&10&5¢

EAVE TROUGH. GALVANIZED.

Territory. L. C. L.
A, Eastern.....80&7½¢
B, Eastern.....80&12½¢
Central.....80&7½¢
Southern.....70&20&10¢
S. Western.....75&12½¢
Terms, 2¢ for cash. Factory shipments generally delivered.

See also conductor pipe and elbows.

EGG BEATERS—See Beaters.

ELBOWS.

Adjustable Stove.
Inches..... 5 6 7
Smooth, per doz. $0.95 $0.95 $1.40
Plan'd " 2.10 2.35 3.00
Corrugated Conductor.
5-inch.....each 60c; per doz. $7.20
6 " ..... " 70c; " 8.40
75¢ discount to dealers on 2-inch' 3-inch and 4-inch plain, round and round corrugated elbows.

Corrugated Stove.
Inches..... 5 6 7
Smooth, per doz. $0.95 $0.95 $1.40
Pol'd " 1.70 1.75 2.60
Plan'd " 2.60 2.85 3.50
Four-Piece Stove.
Inches..... 5 6 7
Smooth. per doz. $0.57 $0.60 $0.93
Pol'd " 1.00 1.05 1.50
Plan'd " 1.50 1.70 2.60

EMORY CLOTH—See Cloth.

EMORY, TURKISH.

Size.....5-lb. pkgs. ¼ kegs, kegs
No. 60 to 150, per lb. 6½c 4½c 4½c
Flour..... " 5½c 3½c 3½c

ENAMEL, IRON.

English, ½-pt. cans.....per doz. $1 50
Nubian " " ..... " 1 80
Peerless..... " 1 50

EXTRACTORS, PIG.

See Forceps, Pig.

EYES.

Bright Wire Screw—See Goods, B. W.
Drifting Pick.....60, 10&5¢
Hooks and—
Brass.....60&5¢
Iron.....65&10¢

FASTENERS, STORM SASH

Moore's.....per doz. $0 80
Schroeder's..... " 1 50
Sensible..... " 1 10

FAUCETS—See Cocks.

FILES AND RASPS.

Black Diamond.....70&10¢
Disston's.....75&10¢

FLUE STOPPERS—See Stoppers.

FORCEPS, PIG.

Superior.....per doz. $4 75
Whitson's Imp..... " 5 25

FORKS.

These goods are sold net this year.
Barley.
Steel.....70&2½¢
Wood, 4 tines, per doz.....$5.25
Coal, Coke, Cottonseed.....40¢
Hay.
Diamond, 2 tine.....50&10¢
" 3 " .....60¢
" 4 " .....40¢
Golden Eagle, 3 tine.....65¢
" " 4 " .....70¢
Digging.....70&10¢
Scoop.....40¢
Header.
Diamond, 3 tine.....66⅔&5¢
" 4 " .....65&10¢
Manure.
Diamond, 4 tine..... 60&10¢
Golden Eagle.....70¢
Ore.....40¢
Spading.
Diamond.....70&10¢
Golden Eagle.....70, 10&5¢

FRAMES.

Hack Saw.
Crown.....per doz. $6 25
Miller's Falls..... " 10 20
Star..... " 2 85

FREEZERS, ICE CREAM.

Arctic.
Qts..... 1 2 3 4 6
Each.....$1.10 1.30 1.50 1.80 2.30
Qts..... 8 10 12 15
Each.....$2.95 3.80 4.50 5.20
White Mountain.
20 qt., New Platform...each $19 10
25 qt., " " " 22 60
25 qt., Sampson Power.. " 43 50
40 qt., " " " 58 25

GAUGES.

Butt and Rabbet.
Stanley R. & L. Co.'s...20&10&2½¢
Cream Pail.
Fairmont.....per doz. $3 75
Marking, Mortise, etc.
.....50&10¢@50&10&5¢
Saw.
Atkin's, single, 55c; dbl. 80c per doz
Wire.
Disston's.....25¢
P. S. & W. Co.'s .....20¢

GIMLETS.

Discount.....35@40¢

GLASS, WINDOW.

First three brackets.....90&15¢
Above " " .....90&10¢

GLASSES, LEVEL.

Stanley R. & L. Co.....50&5¢

GLUE.

Bulk.
B Amber.....per lb. 9½c
A White..... " 12½c
H. S. Amber..... " 17c
Liquid.
Eagle .....40¢
Le Page's—
List "A" .....37½¢
List "B" .....33⅓¢
List "C" .....25¢

GOODS.

Bright Wire.....90&20¢

GREASE, AXLE.

Wood Boxes.
Diamond .....per gro. $5 00
Frazer's..... 9 25
Hub Lightning 5 25
Paragon 6 75
Wood Pails.
Frazer's, 15 lb. 78c; 25 lb. $1.30 each
Hub Lightning, 15 lb. 52c; 25 lb. 68c each.
Tin Cans.
Chamellene Graphite.
1 lb. per gross $9 50
3 lb. per gross.....25 00
5 lb. per gross.....37 00

GRIDDLES.

Soapstone.....40&10¢

GRINDSTONES.

Family.
Inches..... 7 8 9
Per doz.....$8.25 9.00 10.50
Loose.
Per ton.....$20 00@$21 00
Mounted.
Ball Bearing..... 1 2 3
Each $3.15 3.00 2.85
Common Bearing.. 1 2 3
Each $3.00 2.80 2.65

GUN WADS.
(See Ammunition.)

HAFTS, AWL.

Brad.
Common.....per doz. $0 18
Peg.
Common..... " 21
Patent, plain top .... " 46
" leather top... " 52
Sewing.
Common..... " 21
Patent..... " 53

HALTERS.

Jute Rope .....per doz. $0 80
Sisal Rope..... " 1 95
Web ..... " 2 10
Leather, rope tie..... " 6 25
" leather tie.... " 8 25

HAMMERS, HANDLED.

Blacksmiths' Hand.
Maydole's .....40&10¢
Engineers'.
Maydole's .....40&10¢
Farriers'.
Maydole's .....35&5¢
Machinists'.
Maydole's .....40&10¢
Nail.
Ajax .....per doz. $5 75
Calumet ..... " 3 15
Cast.....per doz. $1 10@$1 50
Maydole's .....30&7½¢
Vulcan .....35&5¢
Riveting.
Maydole's .....35&5¢
Shoe.
Cast.....per doz. 75c
Tack.
All Iron.....per doz. $0 35
Pol'd Iron, Hickory hdl. " 52
Mall. Iron, Inlaid..... " 1 50
Magnetic 1 2 3
Per doz 70c 80c 95c
Magazine.....per doz. $4 75

HAMMERS, HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs.....70&10¢
5 lbs. and over.....75&5¢
Masons'.
Single & Double Face.....70&10¢

HANDLES.

Auger.
Common Assorted ...per doz. $0 36
Peck's Adjustable ... " 2 10
Roger's " " 4 15
Ives' " .....per set 1 25
Axe .....50&10¢
Chisel.
Hickory, Tanged Firmer, Assorted, 24c; Large, 28c per doz.
Hickory, Socket Firmer, Assorted, 18c; Large, 21c per doz.
Applewood, Tanged Firmer, Assorted, 27c; large, 36c per doz.
Applewood Socket, Firmer, Assorted .....per doz. 24c
Coal Pick .....50&10¢
Drifting Pick.....50&10¢
File, assorted 13c, large 16c per doz.
Hammer.
Adze Eye.....per doz. 48c
Blacksmiths'.....per doz. 55c@80c
Machinists'..... " 45c@70c
Hatchet .....per doz. 45c
Hay and Manure Fork .....40&10¢
Hoe and Rake.....40&5¢
Saw.
Plain .....per doz. 72c
Varnished..... " 68c
Screw Driver.
Assorted ..... " 42c
Large ..... " 48c
Shovel and Spade.....40¢

HANGERS.

Barn Door.
King.....per doz. prs. $6 08
Monarch .....60&10¢
"Never Jump" Hinge.....50&10¢
Peerless, Loose Axle .....60&10¢
Perfection, Roller Bearing ..70&5¢
Phoenix, Roller Bearing.....70&5¢
Prouty, No. 315..per doz. prs. $6 35
Rival..... " " 3 65
Superb..... " " 5 50
Safety Flexible . " " 6 35
Wagner's Adjustable.....70&10¢
Warehouse .....60¢
Conductor Pipe.
Iwan's Perfection .....50¢
Eave Trough.
Baker's.....per gro. $2 35
Imperial .....20¢
Wire .....35¢
Parlor Door.
Acme .....per set $3 75
Ives' Improved ..... " 2 50
Lane's Standard..... " 3 50
" New Model..... " 3 10
Le Roy Noiseless ..... " 4 00
Richards'.....40-10&5¢
Wilcox Standard .....per set $3 15

HASPS.

Hinge, Wrought .....50&5¢
With Staples—See Staples.

HATCHETS.

Ajax .....35¢
Blood's.....40¢
Cast Claw.....per doz. $1 20@1 45
Cast Shingling.... " $0 95@1 20
Duffy's Barrel.....per doz. $17 50
Germantown.....40¢
Hammond's.....40¢
Roger's Ideal .....per doz. $5 75
Underhill's Star Lath .....40&10¢

HAY KNIVES.

See Knives.

HAY RACK BRACKETS.

Wenzleman's No. 1....per doz. $12 60
" No. 2.... " 18 20

HINGES.

Blind.
Clark's Gravity ...per doz. sets 80c
Parker's.....65¢
Shepherd's Noiseless, for Wood casing .....per doz. 1 50
Gate.
Clark's..... 1 2 3
Hgs & Latch ....doz. $2.35 2.60 3.60
Hinges only.... " 1.70 1.90
Latches only... " .70 .75
Knuckle .....per doz. prs. $6 00
Leed's ..... " sets 6 75
Superior ..... " prs. 9 25
Spring.
American .....25¢
Bommer Bros. Ball B'g Floor..35¢
Bommer Bros. Spring Hinges..40¢
Chicago.....25&5¢
Clover Leaf.....per gro. $9 00
Columbia Dbl. Acting....40&10&5¢
Gem.....25¢
Ideal Detachable....per gro. $12.00
Matchless.....30¢
New Idea.....per gro. $9 60
Oxford.....20¢
Wrought Iron.
New Lists.....
Light Strap Hinges.....70&5¢
Heavy Strap Hinges.....75&10¢
Light T Hinges.....65&5¢
Heavy T Hinges.....70-10&5¢
Extra Heavy T Hinges....70-10&5¢
Cor. Heavy Strap 80 20-10-10-10-10&5¢
Cor. Ex. Heavy T 80-20-10-10-10-10&5¢
Screw Hook and Strap.
6 to 12 in.....per 100 lbs. $3 50
14 to 20 in..... " " 3 25
22 to 36 in..... " " 3 00
Screw Hook and Eye.
⅝ in.....per 100 lbs. $6 25
⅝ in..... " " 7 25
¾ in..... " " 9 00

HOES.

Garden.....70&15¢
Grub.
Ajax.....60 & 10¢
Extra .....70¢
Hazel.....per doz. $5 00
Ladies' and Boys'.....70&15¢
Mortar .....75&10¢
Planter's Eye.....62½¢
Weed.....75&5¢

HOOKS.

And Eyes.
Brass ..... 50&10&5¢
Iron ..... 65&10¢
Awning ..... per gro. $1 80
Belt.
Brown's ..... 70&5¢
Jones' ..... 65&5¢
Bench.
See Stops, Bench.
Box.
Inch..... 6 8 10 12
Per doz..... $1.25 1.60 1.70 2.25
Humason & Beckley's, per doz. 2 40
(See Goods, Bright Wire.)
Bush.
Common Axe Handle
..... per doz. $7 00@$8 50
Hamilton Pattern..... per doz. 7 25
Chain.
Inch... ¼&5/16 ⅜ 7/16 ½
Per 100 $7.50 - 7.75 9.50 11.25 12 00
Clothes Line.
Japanned..... per doz. 21c@22c
Galvanized..... " 35c
Coat and Hat.
Cast Iron ..... per gro. 72c@$1 50
Gem Wire..... 75&10¢
Conductor.
Malleable..... 50&10¢@50&10&5¢
Wrought ..... 40&10¢@50¢
Corn.
Common, unpolished, per doz. $1 40
" polished.... " 1 80
"Cut Easy"..... " 2 75
Clyde's..... " 2 00
Gate.
See Goods, Bright Wire.
Grass.
Common. Nos..... 2 3 1
Per doz..... $1.75 1.80 1.90
German..... per doz. 1 90
Little Giant..... " 3 10
Wood's..... " 1 30
Hammock.
With Plate..... per doz. 31c
With Screw..... " 31c
Lambrequin, or Drapery, per gro. 21c
Picture ..... 50¢@50&10¢
Potato and Manure ..... 65&15¢
Screw.
Brass..... 80&20¢
(See Goods, Bright Wire.)
Seat Spring ..... per ℔. 5½c

HOOPS, TUB.

Ever Ready ..... per case $1 65

HOSE, GARDEN.

3 ply ¾ in. 35 ℔. pressure per ft.... 5½c
3 " ¾ " 50 " " " 7½c
3 " ⅞ " 70 " " " 7½c
3 " ¾ " 70 " " " 9c
4 " ⅞ " 80 " " " 9c
4 " ¾ " 80 " " " 10½c
6 " ¾ " 125 " " " 11½c
8 " ¾ " 150 " " " 13c
Cotton ¾ in. 75 ℔. pressure per ft. 7c
" ¾ " 150 " " " 9c

HUSKER.

Boss.
Nos..... E A B
Per doz..... $1.85 2.00 1.95
Nos..... P
Per gro $5.90 5.20
Nos..... 2000 3000
Per gro..... $3.10 6.75
Nos..... 4000 O OX
Per doz..... $1.15 2.20 1.65
Brinkerhoff's.
Per gro..... $14 50
Harrington.
Per gro..... 4 20
Ideal.
Nos..... 102 101 100
Per doz..... $1.35 2.50 2.75
Johnson's.
Per gro..... $7 75

IRON.

See Metals—First column.

IRONS.

Curling.
Common..... per doz. 33c@48c
Princess ..... per doz. $0 60
Yale..... " 84
Oxford ..... " 1 10
Ruby ..... " 1 50
Tourist, Folding..... " 90
Pinking ..... " 60
Plane.
Wood Bench..... 30&5¢
Stanley R. & L. Co. (new list) 25&5¢
Sad.
Charcoal ..... per doz. $10 75
Common, Polished, per 100 ℔. 3 50
" Nickel plated, " 4 75
Chinese Polishing..... per doz. 7 60
Laundry. No. 1 ..... " 5 75
" No. 2 ..... " 6 25
Mrs. Pott's,
No. 50 J, Enterprise... per set, 79c
No. 55 J, " ... " 76c
No. 50 T, " ... " 82c
No. 55 T, " ... " 79c
No. 50, Howells..... " 72c
No. 55, " ..... " 69c
Tailors' Sad..... per ℔. 4½c
(" Geese)..... " 4½c
Tuyere.
Single Duck Nest..... per doz. $5 25
Double " " ..... " 6 25
Sutton ..... each 2 60

JACKS.

Locomotive ..... 75&5¢
Wagon.
Meekers'..... per doz. $1 25
Miller's No. 2..... " 7 00
Winner ..... " 7 00

KETTLES.

Brass..... 20¢
Caldorn ..... 50¢
Copper..... per ℔. 27½c
Maslin ..... 66⅔¢
Sugar ..... 50&5¢

KNIVES.

Beet Topping.
Clyde, 9-in. Scimiter Blade, dz. $3 85
" 10½-in. Straight " " 3 15
California..... 3 40
Cooper's Hoop ..... 15¢
Corn.
Ajax..... per doz. $2 10
Drawing.
Standard ..... 70¢
Adjustable..... 20¢
Barton's Carpenters'..... 10¢
" Folding Handle.... 25&5¢
Hay.
American, Sickle Edge.. doz $10 25
Canton, Sickle Edge..... " 8 25
Heath's ..... " 8 25
Iwan's Sickle Edge..... " 10 00
Lightn'g, Holt's Genuine " 6 50
Lightning Pattern..... " 5 75
Wadsworth's Sp'r Point " 8 75
Hedge.
Ajax, Heavy..... per doz. $5 75
" Extra Heavy.... " 7 75
Mincing.
Common, Single ..... " 48
" Double ..... " 65
Streeter, 4 Blade..... " 1 30
" 6 Blade..... " 1 90
Putty.
Common..... " 84
Goodell's..... per doz. $1 30@1 80
Russell's..... " 1 75@2 25

KNOBS.

Door.
Mineral ..... per doz. $0 70
Porcelain ..... " 80
Jet..... " 80

LADDERS.

Common Long.
Per ft ..... 9c@14c
Extension.
Per ft 12c
Step.
Common, per ft..... 6½c
" with Shelf, add 10c.
I X L. per ft 17c
Miller's Household, per ft. 13c@15c

LANTERNS.

Bull's Eye Police.
3-in. Flash Light..... per doz. $6 00
2¾-in. Regular..... " 4 00
3-in. Regular..... " 5 00
Tubular.
Berger..... 40&10&5¢

LEADERS, CATTLE.

Nos 1 2 3
Per doz..... $0 55 $0 70 $2 75

LEATHER, LACE.

Cut ..... 50&10¢
Sides.
Ex. Quality..... per sq. ft. 20c

LEATHERS, PUMP.

Valve and Plunger ..... 50¢

LIFTERS.

Stove Cover.
Japanned ..... per gro. $2 75
Coppered..... " 3 60
Devore's..... " 5 50
Zero..... " 3 90
Transom.
Payson's..... 70&10¢

LINES.

Chalk.
Twisted in 20-ft. hanks.
Nos..... 15 14 13 12 11
Per doz..... 10c 12c 17c 22c 29c
Twisted in 50-ft. balls.
Nos..... 1 2 3 4
Per doz..... 24c 30c 36c 44c
Braided in 20-ft. hanks.
Nos..... 0 1 2
Per doz 23c 26c 33c
Mas[illegible] in 100-ft. hanks.. doz. $1 00
Clothes.
60-ft. Jute..... per doz. $0 95
72-ft. " ..... " 1 10
60-ft. Sisal ..... " 1 60
72-ft. " ..... " 2 10
60-ft. Cotton ..... " 1 25
50 ft. Braided Cotton. " 1 00

LINING, STOVE.

In Bricks..... per crate 42c

MACHINES.

Boring.	Without Augers	With Augers
Ajax..... per doz.	$5 25	$6 75
Angular.... "	3 25	5 00
Boss ..... "	4 50	5 00
Upright.... "	2 90	4 00

Leather Riveting.
Chicago, Pomeroy.... per doz. $9 75
Excelsior ..... " 2 50
Handy ..... " 2 10
Little Giant..... " 3 10
Pony, Pomeroy..... " 8 00
Washing.
Boss 1 2 5
Per doz..... $55.20 61.20 67.20
Globe, No. 1 ..... per doz. 53 00
O K Rotary..... " 55 50
Round Wayne..... " 26 50
U. S. Steel..... " 60 00

MAIL BOXES.

See Boxes.

MALLETS.

Carpenters'.
Fibre Head, Small ... per doz. $5 00
" " Medium. " 5 75
" " Large... " 6 75
Round Hickory..... " 1 75
" Lignumvitæ .. " 2 75
Square Hickory..... " 1 75
" Lignumvitæ.. " 3 25
Tinners'.
Applewood ..... " 60
Hickory..... " 85
Hickory Sheet Iron.. " 1 30

MATS.

Door.
National Rigid..... 50, 10&5¢
Queen Flexible..... 50¢
Stove.
Standard Quality... per gross $2 75
Best " (Pure) " 4 75
Wire Covered Asbestos, Ex. Heavy ..... per doz. 1 00

MATTOCKS.

Ajax..... 60&10¢
Extra ..... 70¢

MAULS.

Iron. lbs. 10 13 16 18 21
Per doz. $3.15 3.85 4.45 4.75 5.25
Wood face, lbs. 10 11 12
Per doz $4.75 5.00 5.25
Wood Choppers'.
Lake Superir & Oregon Pat. 70&10¢

MEASURES.

	½ pk.	1 pk.	½ bu.
Galvanized, per dz.			$3 65
Japanned... "	$1.40	2.10	2.60

METAL.

Babbitt.
Alm ..... per lb. 8½c
Best..... " 23 c
Common. No. 4..... " 6½c
Copper Mixed..... " 18½c
Tony ..... " 10½c
See Metals—In first column.

MICA.

First Quality..... 35¢
Second Quality..... 45¢

MILLS, COFFEE.

Enterprise ..... 25&5¢
National..... 50¢
Parker..... 50&10¢@60¢

MITRE BOXES.

See boxes.

MOPS.

Erie..... per doz. $3 15
Handled Cotton.
Pounds..... ¾ 1 1¼ 2
Per dozen... $2.00 2.35 2.65 3.25

MOWERS, LAWN.

Ball-Bearing.
Inches..... 15 17 19 21
Each $7.50 8.50 9.50 10.50
Cheap Grades.
Inches..... 12 14 16 18
Each $2.10 2.10 2.10 2.20
Clipper ..... 50, 10&10¢
Girard.
Inches..... 14 16
Each..... $3.25 3.50
Philadelphia.
All Styles Except A & E 60, 10&10¢
Style A..... 50&10¢
Style E, High Wheel.. 60, 10, 10&10¢
Drevels..... 50¢
All Day..... Net Price

NAILS.

Cut Steel ..... rates, $2 05
Horse Shoe.
Ausable ..... 50¢
Capewell ..... 10¢
Perfect..... 40&5¢
Putnam ..... 10-5¢
Star ..... 35¢
Picture.
Brass Heads ..... 40&10¢
Judd's..... 40&10¢
Brads..... 80, 10&10¢
Furniture ..... 40¢
Wire.
Small Lots..... $2 05
Carload " 2 00
Cement Coated..... 1 80

NAIL PULLERS.

See Pullers.

NAIL SETS.

See Sets.

NETTING, POULTRY.

Galvanized Before Weaving.. 80&20¢
" After Weaving... 80&15¢
Cut Pieces..... 65&5¢

NIPPERS.

End Cutting.
P. S. & W. Co..... 60&10¢
Stubb's Pattern..... 60&10¢
Hoof.
Heller's ..... 40&5¢
P. S. & W. Co..... 40&10¢
V. & B..... 40-5¢

NOZZLES.

Hose.
Gennine Boston..... per doz. $3 05
Genuine Gem..... " 2 95
Magic..... " 3 15

NUTS, HOT PRESSED.

Square Blank.
In. ¼ ⅜ ½ ⅝ ¾ ⅞ 1
℔. 9c 6c 4c 3½c 3½c 3½c 3c
Square Tapped.
In. ¼ ⅜ ½ ⅝ ¾
℔. 12c 7½c 5c 4½c 4c
For 5 lb. boxes add ½c per ℔. to above prices.

OILERS.

Chase Pattern
Brass and Copper..... 35¢
Zinc ..... 60¢
Engineers'
Cannon..... 10¢
Tin..... per doz. $2.00@$3.00
Machine.
Ajax..... per doz. $0 80
Copper Plated Steel.. " 1 50
Malleable Iron..... 40, 10&5¢
Tin..... per doz. 55c@65c

OPENERS.

Box.
Inches..... 10 12 14
Flat .per doz $2.85 3.60 4.15
Round " 2.10 2.25 2.75
Can.
Delmonico..... per doz. $1 30
Never Slip..... " 0 65
Crate.
V. & B..... " 5 75

OUTFITS, COBBLING.

Combination ..... per doz. $11 50
Economical..... " 4 90
Family..... " 10 00

PADLOCKS.

Standard Wrought ..... 70, 10&5¢
Champion ..... 50¢
Eureka..... 40, 10&5¢
Yale ..... 60&5¢

PAILS.

Cream.
14-qt., without Ga.... per doz. $2 75
20-qt., " " .... " 3 25
20-qt., with Gauge.... " 4 20
Sap
10-qt., Galvanized..... per doz. 1 60
12-qt., " ..... " 1 85
Stock
Galvd. qts. 14 16 18 20
Per doz..... $3.75 4.00 4.65 5.25
Water.
Galvanized, qts 10 12 14
Per doz $1.75 1.95 2.25
Wood.
Cable, 2-Hoop..... per doz. $1 90
" 3-Hoop..... " 2 10
Cedar, 3-Hoop..... " 2 85
Standard, 2-Hoop..... " 1 50
" 3-Hoop..... " 1 70

PANS.

Dripping ..... 60&10&5¢
Fry.
Common..... 60&10&5¢
Acme..... 66⅔&5¢
Roasting.
Brownie..... each 22c@30c
L. & H..... " 45c@60c

PAPER.

Building.
Plain ..... per 100 lbs. $1 15
Tarred..... " 1 25
Tarred Felt..... " 1 80
Diamond A. Red Rosin, pr roll 60
Leader, Red Rosin..... " 45

Sand and Emery.
Ajax ..... 50&10%
B. & A ..... 50&5%
Wrapping.
Grecian Express ..... per ℔. 3½c
Rag ..... " 2½c

PARERS.

Apple.
Bay State ..... per doz. $12 75
Reading ..... " 6 50
Turntable ..... " 5 70
White Mountain ..... " 4 50
Potato.
Goodsell's Saratoga 10½ in. doz. 6 50
" " 5 in.. " 5 50

PICKS.

Adze Eye Ore ..... 65&5%
Drifting and Poll Picks 70%
Ajax Railroad ..... 60&10%
Extra Railroad ..... 70&5%
Surface ..... 65&5%

PINCHERS.

Carpenters', wrought iron, pol. steel jaws 30%
Blacksmith's 50%
P. S. & W ..... 40 &10&5%

PINS.

Clothes.
Common ..... per gro. $0 12
Hoyt's ..... " 30
U. S. ..... " 70
Picket.
Fluted 15 in ..... per doz. $0 70
" 21 in ..... " 1 60
Spiral ..... " 1 90

PIPE.

Conductor.

	Nested.	Not Nested
Eastern, A.	75&2½%	75&2½%
Eastern, B.	75, 10&2½%	75&2½%
Central	75&7½%	75%
Southwestern	70&7½%	70&2½%
Texas	70&7½%	70&2½%
Mo. River	70&7½%	75%
Southern	70&10%	70&5%

Lead.
Full coils ..... per ℔. 6½c
Cut " ..... " 6½c
Stove.

Acme—In.	5	6	7
Smooth, per jt.	10½c	10½c	12½c
Planished "	32c	33c	43c
Peerless—Smooth	8½c	9c	11½c
Polished	16c	18c	22c
Plan'hed	28c	31c	40c
Made-up—In.	5	6	7
Smooth	8½c	9c	12c

7 to 6 in. Smooth Tapers, pr jt.. 14c
6 in. Smooth T's ..... " .. 30c
7 to 6 in. Planished Tapers 45c
Wrought Iron Gas Pipe
¼@⅜-in., black ..... discount, 60%
⅜@½-in. ..... " 60,10&5%
¾-in. to 6-in., black ..... " 70%
7 " 12 " " 62½%
¼@⅜ " galvanized " 42%
⅜@½ " " " 50%
¾ " 6 " " 57½%
7 " 12 " " 45%

PLANES.

Siegley Iron Bench ..... 50&10%

PLANTERS.

Corn.
Monitor ..... per doz.. $7 75
Triumph ..... " .. 6 00
Potato.
Acme ..... per doz.. $6 25
Challenge ..... " .. 10 75
Fencing.
Cronk's ..... per doz.. $9 27
Farmers' Choice ..... " .. 8 75
Russell's ..... " .. 8 65
Flat and Round Nose.
Bernard's 30%
German 50%
Lodi 40%
Paragon ..... 40&10%
P. S. & W. Co 60%
Gas—In. 8 10 12
Per doz $3.10 $4.00 $4.90

PLIERS.

Button's—In. 4½ 6 8 10
Per doz $2.60 $3.10 $3.90 $5.20
Button's Pattern.
In. 4½ 6 8 10
Per doz $2.35 $2.50 $3.45 $4.40
Cutting.
Bernard's 30%
Lodi ..... 40&10&5%
4 Tube, revolving ..... " 5.25

Tinner's.
Hollow ....
Solid ..... each.. 5½c

PLUMBS AND LEVELS.

Common ..... 75%@75&10%
Cook's 40%
Davis' Iron 30%
Davis' Inclinometer 20%
Stanley's.

Nos.	00S	0S	2S	3S
Per doz..	$4.50	$5.20	$7.60	$8.65
Nos.	30	25	50	35
Per doz.	$13.00	$17.50	$17.50	$12.35

POINTS.

Drive Well Points ..... 75&10%

POKERS—STOVE.

Wr't Iron, str't or bent, per doz. $0.50
Wr't Iron, wood hand'ls " " .75
Nickel pl'td, coil hdl's.. " " .70

POKES—ANIMAL.

Brown's, wr't steel, per doz. $5.00@6.00

POLES—FISHING.

Bamboo.
Ft. 12 18
Per. 100 ..... $2.65 $6.25

POLISH.

Metal.
Pride of the Bar $0.60
Putz Cream.
Pts. 1-6 ½ ¼
Per doz $0.84 $1.25 $1.80
Pts. 1 2 4 8
Per doz $3.60 $6.00 $9.00 $18.00
White Silk, half pints, per doz. $2.00
White Silk, 6 oz. cans, per doz. 1.00
Wondershine
Pts. 1-6 ½ 1 2
Per doz $0.68 $1.30 $2.15 $3.00
Shoe.
M. D. C ..... per doz. 36c@50c
F. C. O ..... " 40c
T. M ..... " 55c@$1.25
Imperial ..... per gr $5.00
Stove.
Black Eagle, 1 ℔ cans. pr gr.. $15.00
Black Silk—
5 ℔. pail 70c
Paste, 5 oz. cans ..... per doz. $1 00
Paste, ½ ℔. cans ..... " 1 00
Black and Japanned—
Liquid, ½ pint cans.. " 1 00
Liquid, 6 oz. cans... " 75
Steel Range Gloss.. " 1 75

Blackene, 1 ℔ cans ..... pr gro. 13 00
Black Jack, ½ ℔ cans.. " 9 00
Dixon's Carb. of Iron.. " 5 75
Nickel Plate ..... " 4 50

POPPERS, CORN.

Round or Square, 1 qt. per dz, 85@95c
Square, 1½ qt ..... " $1 00
Square, 2 qt ..... " 1 25
1 qt. Reversible ..... " 1 50

POTS, FIRE.

Bernz ..... each $3 85
Clayton & Lambert's, ea.. $4 75@6 25
Gate City ..... each 6 25
Gem ..... " 6 75

POWDER.

See Ammunition.

PRESSES, FRUIT AND JELLY.

Enterprise Manufacturing Co 25%
Henis ..... per doz. $3 10

PRIMERS.

See Ammunition.

PRUNERS.

Disston's Pole ..... per doz $7 50
Henry's Improved ..... " 65&10%
Water's Improved ..... " 70,10&5%

PULLERS.

Cork.
Daisy ..... each $3 40
Phoenix ..... " 1 60
Quick and Easy ..... " 2 90
Nail.
Giant ..... per doz. $9 00@10 50
Giant Pattern. " 00
Tack—Giant ..... " 60

PULLEYS.

Awning—Jap'd ..... 40&5% to 35&5%
Clothes Line ..... 20&10%
Hay Fork.
Iron Wheel, 5 in ..... per doz. $1 85
Wood Wheel, 6 in ..... " 1 80
Wood Wheel, 6 in., pass knot ..... " 2 25
Hot House—Jap'd ..... 30&5%
Screw ..... " ..... 30&5%
Side ..... " ..... 30&5%
Sash.
Chicago ..... per doz. $0 29
Clark's ..... " 42
Common Sense, 2 in ..... " 26
" Pattern, 2 in ..... " 20
Empire ..... " 24
Ideal ..... " 22

PUMPS.

Pitcher Spout.
Nos. 1 2 3 4
Each ..... $.90 1.00 1.10 1.40

PLATES, TIN.

See Metals in Column 1.
Spray.
Blizzard ..... per doz. $14 25
Cyclone, tin ..... " 3 90
" copper ..... " 6 75
Daisy ..... " 8 75
Little Giant ..... each 2 40

PUNCHES.

Conductors'.
No. 22 ..... per doz. $2 00
Machine ..... per ℔. 0 60
Saddlers'.
Common ..... per doz. 60c@70c
Good ..... " 72c@84c

PUTTY.

In Bladders.
Strictly pure ..... per 100 lbs. 2 35
Commercial ..... " 2 10

RAIL.

Barn Door.
Light Wrought ..... per ft. 3c
Safety ..... " 4½c
Single Flange ..... " 1½c
Smith's Wro't Bracket, plain 3½c
Smith's Special 4½c
Smith's "Never Jump" 11c 50%
Smith's Plain Steel 30%
Smith's Milled Steel 4½c
Sliding Door.
Painted iron ..... per ft. 4½c
Bronzed wrought iron ..... " 8½c

RAKES.

Coal or Wood ..... per doz. $5.60
Garden.
Steel, braced ..... 80&10%
Steel, bow 75c
Malleable Iron, heavy ..... 70&7½
Hay.
Wood ..... $1.40@$2 00
Lawn—Wood.
Common ..... per doz. 2 35
Automatic ..... " 5 75
Gibbs' ..... " 3 95
Jumbo, 36 teeth ..... " 6 30

RASPS—See Files.

REGISTERS.

List December 5, 1904.

Black and White Japanned 75%
Nickel Plated 75%
Electroplated, Brass, Bronze or Copper 75%

RINGS

Bull

Copper	2-in.	2½ in	3 in.
Per doz		$1.35	$1.70
Rea's Improv'd Self Piercing copper. pr d'z.	$1.25	1.50	1.75
Steel per doz		.95	1.05
Nickel Plated		1.35	...

and Ringers—Hog.
Blair's Rings ..... per doz. $0 60
Blair's Ringers ..... " 84
Brown's Rings ..... " 65
Brown's Ringers ..... " 90
Champion Ringers ..... " 1 70
Hill's Ringers ..... " 65
Hill's Ring, boxes ..... " 45
Mazor Rings ..... " 80
Perfect Ringers ..... " 95
Wolverine Rings ..... " 1 50
Wolverine Ringers ..... " 70
Fruit Jar.
White ..... per ℔ 30c
Key.
Split, round ..... per doz. 12c
Split, square ..... " 32c
Ball, Round ..... " 32c

RIVETS.

and Burrs.
Copper Belt ..... 50&5%
Coppered Iron 75%
Tinners' ..... 66⅔@10%
Hame ..... per ℔. $0 00
Slotted Clinch ..... per doz. 40c@45c
Tubular.
Nos. 1 and 2 assorted sizes, doz. 45c

RIVET SETS.

See Sets.

ROPE.

Cotton.
¼, 5-16-in. Com. on reels.. per ℔. 12½c
¼, 5-16-in. Com. in coils .. " 13c
¼, 5 16 Imperial in coils . " 22c
Sewall & Day Sisal Rope.
Rates 10½c
Sisal.
Eagle, rates ..... per ℔. 8½c
Pure Manila.
Rates ..... " 12½c

RULES.

Boxwood 60%
Ivory ..... 35&5%

SASH WEIGHTS.

See Weights.

SAWS.

Back.
Disston's ..... 25&7½%
Jackson's ..... 25&7½%
Butchers'.
Disston's ..... 35&7½%
Circular.
Disston's 50%
Hiles' ..... 50&10%
Compass.
Common ..... per doz. $1.35@$1.60
Disston's ..... 25&7½%
Cross-Cut.
Atkins' 40%
Disston's ..... 40&10% &50%
Pocahontas Bit ..... per ft. 30c
Pocahontas, Blued ..... " 41c
Dehorning.
Atkins' ..... per doz. $5 50
Disston's ..... " 5 75
Hack.
Disston's 25½%
Keystone 35½%
Sterling Hack Saw Blades 25%
Sterling Hack Saw Frames 30%
Hand and Rip.
Brown's ..... 30&7½%
Disston's No. 7 ..... 30&7½%
Disston's Nos. 8, D8, 12, 76, 112, D100, and 120 ..... 25&7½%
Gorham's Comb ..... 30&7½%
Keystone ..... 30&7½%
Sam Sickles', hand ..... per doz. $4 25
"I Will," hand ..... " 5 75
"I Will," rip ..... " 6 75
Keyhole—Disston's ..... 25&7½%
Kitchen.
Sterling 25%
One Man 50%
Panel.
Brown's ..... 30&7½%
Disston's No. 7 ..... 30&7½%
Disston's No. D100 ..... 25&2½%
"I Will" 40%
Pruning.
Avery's Duplex ..... 25&7½%
Brown's ..... 25&7½%
Disston's ..... 25&7½%
Wood.
Common ..... per doz. $4 50
Handy ..... " 7 50
Happy Medium ..... " 7 00
Wood Sawyers' Delight " 8 25

SAW BUCKS—See Bucks.

SAW SETS—See Sets.

SAW TOOLS—See Tools.

SAW FRAMES.

Common, plain ..... per doz. $1 20
" painted ..... " 1 60

SCALES.

Counter.
Pelouze ..... 40&10%
Platform.
Osgood 50%

SCOOPS.

Grain.
½ Bu. "Hercules," .. per doz. $13 75
1 " " " 15 50

SCRAPERS.

Box.
Stanley's Adjustable, per doz. $3 60
Triangular ..... " 2 50
Cabinet.
Ajax ..... per doz. $2 25
Cast Steel ..... " 65c@75c
Stanley's No. 80 ..... " $8 40
Road.

Cubic ft.	7	5	3
Without runners, ea.	$4.15	3.90	3.65
With runners	4.00	4.15	3.90

SCREWS.

Bench.
Iron ..... 50&5%
Wood, white maple.. per doz. $3 60
Hand—Wood 20%
Hand Rail ..... 70&10%
Jack ..... 75&5%
Lag or Coach—all sizes, gimlet pointed ..... 75&10%
Saw—Centennial.

Nos.	1	2	3	4	5	6
Per doz.	19c	22c	27c	32c	25c	27c

Wood.
F. H. Bright Steel ..... 87½, 10&10%
R. H. Blued Steel ..... 85&5%
F. H. Jap'd Steel ..... 82½&5%
F. H. Brass ..... 85&5%
R. H. Brass ..... 80&5%
R. H. Nickel Plated 75%

SCYTHES.

Clipper, grain ..... per doz. $7 75
Clipper, grass ..... " 6 00

SETS.

Nail.
Round, common.....per doz. $0 33
Square, " ..... " 42
Octagon " ..... " 33
Square, Buck Bros.. " 1 25
Cup Point, knurled, pr. doz. 70c@90c
Rivet.
Farmers'.....per doz. $1 45
Tinners'.....50&10%
Saw.
Aiken's Pattern.....per doz. $3 50
Common Lever..... " 1 20
Disston's Monarch... " 6 50
" X Cut..... " 11 75
German ..... " 1 35
Morrill's Old Style... " 5 00
" Pattern.... " 4 50
Leach's..... " 4 80
Nashe's Hand..... " 4 00
" X Cut..... " 5 50
Stillman's Lever..... " 1 30
" X Cut..... " 2 50

SHARPENERS, SKATE.
Diamond.....per doz. $1 60

SHAVES, SPOKE.
Iron.....per doz. $1.35@$2.75
Wood..... " 2.75@ 4.75
Bailey's.....50&5%
Goodell's.....15%
Stanley's Universal.....30&5%

SHEARS.
Pruning.
Buckeye, No. 1.....per doz. $6 75
" No. 2..... " 8 40
California Pat.. 9 in.. " 4 25
" " 10 in.. " 5 00
Draw Cut, No. 3..... " 14 75
" " No. 4..... " 17 50
Henry's Pat. 0 01 14 012
Per doz.....$1.90 $2.50 $3.15 $3.50
Star.....per doz. $4.75
Sheep—No. BBA.
Inches..... 6 6½ 7
Reg. Grip..... $11.25 $11.50 $12.00
Nar. Grip, doz. 11.75 12.00 13.00
Tinners'—See Snips.

SHEAVES, SLIDING DOOR.
Common.
Inches..... 3 4 5
Per set..... $0.42 $0.48 $0.70
Hatfield's.
Per set..... .75 1.00 1.60

SHELLS—See Ammunition.

SHELLERS, CORN.
Union..... per doz. $7.25

SHIELDS.
Expansion Bolt Shields.....50&10%

SHOES.
Conductor.
5-inch.....each 75c; per doz. $ 8.64
6 " ..... " 80c; " 10.18
75% discount to dealers on 2-inch, 3-inch and 4-inch plain, round and round corrugated shoes.

SHOE POLISH—See Polish.

SHOT—See Ammunition.

SHOVELS AND SPADES.
Coal.
No. 2 Ajax.....per doz. $5 25
No. 4 Golds..... " 6 29
Ames' new list.....Discount 12½%
Drain.
Iwan's Perfection.....50%
Railroad, Etc.
Gold Hibbard's.....per doz. $9 25
C. H. Conover's..... " 7 75
Beckwith's..... " 7 75
Hickory..... " 6 25
Greenleaf's..... " 5 25
Columbus..... " 5 00
Ames' new list.....Discount 12½%
Snow.
Per doz.....$1.65@$9.00

SIFTERS.
Hunter's Genuine.....per doz. $1.10
" Imitation..... " .90
Tin Rim, 16 mesh plain wire " 1.35
Wood " 16 " " " " .80

SINKS.
Cast Iron.
Painted.....10&5%
Enameled, White.....60-10&10%
Wrought Steel.
Painted, new list.....40-10&5%

SLEDGES—See Hammers.

SNAPS, HARNESS.
Champion.....65%
German Pattern.....30&5%
Judd's Pattern.....60&10%@70%

SNATHS.
Double Ring, Bush.....per doz. $6 75
Patent Loop " .... " 7 30
" " Grass..... " 6 00

SNIPS, TINNERS'.
Hernisch's.....40&5%
National.....40&5%
P. S. & W. Co's.....25&5%

SOLDER—See Metals.

SPRINGS, DOOR.
Perfect.

Nos.....	1	2	3	4
Per doz....	28c	33c	35c	40c

Reliance.
Per doz.....light $1.40; heavy $2.20
Star.
Per doz..... light 90c; heavy $1.30
Torrey's.....per doz. $1.30
Warner's No..... 11 12
Per doz..... 70c $1.30

SQUARES.
Steel and Iron..... .....75%
(Add for Bluing, $2.50 per doz., net)
Mitre.
Stanley's No. 12.....40%
Try.
Stanley's No. 20, new list...30&10%
" No. 12 and 14.....40%
Try and Bevel.
Stanley's .....40&5%
Try and Miter.
Fox's.....per doz. $7.25
Winterbottom's.....50%

SQUEEZERS, LEMON.
Common Wood.....per doz. $0 70
Porcelain Lined, Wood. " 1 25
Boss, malleable iron.... " 75
Pearl, nickel plated..... " 1 30
Star, " " ..... " 1 60
Little Giant, tin'd iron. " 3 80
Drum, japanned..... " 3 60
Drum, nickel plated .... " 4 50

STAPLES.
Blind.
Barbed.....per ℔ 9½@10c
Butter Tub..... " 8@8½
Fence—less than carload.
Polished.....per 100 ℔ $2 20
Galvanized..... " 2 50
Netting.
Galvanized.....per 100 ℔ 3 90
Wrought.
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples.....85-10&5%
Extra heavy.....75&10%

STEELYARD.
Discount 25%

STONES.
Axe.
Hindostan.....per ℔ 5½@7c
More Grit..... " 9½c
Washita ..... " 16½c
Emery.....60%@60&5%
Oil—Mounted.
Arkansas Hard.....per ℔ $2 00
Arkansas Soft..... " 1 15
Hindostan..... " 6½@6½
Oil—Unmounted.
Lily White.....per ℔ 43c
Queer Creek..... " 14½c
Ouachita..... " 36c
Washita ..... " 25c
Sythe.
Black Diamond.....per gro. $7 75
Clear Grit..... " 4 25
Gem Corundum..... " 7 50
Green Mountain..... " 4 20
La Motte ..... " 7 00
White Mountain..... " 6 50
Willoughby Lake..... " 6 25
Red End..... " 3 15

STOPS, BENCH.
Hotchkiss'.....per doz. $3 60

STOPPERS, FLUE.
Common.....per doz. $0 42
Crown ..... " 48
Gem, flat, painted..... " 72
Gem, cor'd, decorated.. " 68
Kirch's..... " 1 20
Peerless.... .... " 72
Skinner's Common Sense " 95

STOVE PIPE—See Pipe.

STOVE BOARDS—See Boards.

STRAPS.
Scoop.....per doz. prs. $1 80
Skate..... " " 60@70c

STRETCHERS.
Carpet.
Bullard's.....per doz. $3 90
Excelsior..... " 5 25
Malleable Iron..... " 70
Perfection..... " 6 00
King..... " 4 50
Wire.
N. S. Elwood's..... " 6 00
O. S. Elwood's..... " 6 00
Little Giant..... " 5 75
Star Lever..... " 6 25
Star Tackle Block.... " 9 00
Warner's..... " 6 25

SWIVELS.
Malleable Iron.....per ℔ 6½c
Wrought Steel.....per gro. $4 50

TACKS.
American Cut.....90&5%
American Wire.....85&25&10%
Bill Posters Cut.....90&40%
Blued Carpet.....90&15%
Tinned Carpet.....90&10%
Gimp.....90&35%
Upholsters' Cut.....90&40&5%
Upholsters' Wire.....90&35%
Double Pointed.....90&20%
Copper.....per ℔ 32c
Canvas Nails.....75&5%
Clout Nails .....75&5%
Hungarian Nails.....80&5%

TAPES, MEASURING.
Asses' Skin.....40&10%
Bend Leather.....25%
Patent Leather.....25%
Lufkin's Steel.....30%
Lufkin's Metallic.....30%

TEE BEVELS—See Bevels.

THERMOMETERS.
Tin Case.....per doz. 95c@$1 25
Wood Back..... " $1.75@ 9 00
Glass..... " 15 50

TIES.
Bale.
Single Loop.....80&7½%
All other kinds.....65&10%
Cow—See "Chains."

TOOLS, SAW.
Atkins' Dexter.....per doz. $4 25
Atkins' Excelsior..... " 6 25
Disston's Universal.....40%

TRAPS.
Fly.
Balloon.....per doz. $1 00
Harper's..... " 1 25
Game.
Newhouse.....50%
New Victor.....75&10%
Mole.
Reddick's.....per doz. $5 75
Mouse and Rat.
Wood Choker.....per hole $0 11
Tin Choker..... " 09
Delusion.....per doz. 85
Imitation Sight, Rat. " 80
Marty Rat..... " 6 75
Marty Rat Imitation.. " 3 75
Marty Mouse..... " 3 15
Marty Mouse Imitation " 2 10
French Automatic.....each 3 60

TROWELS.
Brick.
Standard.....30%
Brade's.....10&7½%
Disston's.....30%
Rose's.....25%
Plasterers.
Standard.....33½%
Disston's.....30%
W. & McP.....25%

TRUCKS.
Bags.....each $1 70
Handy..... " 1 50
Warehouse.....60&5%

No.....	1	2	3
Half Ironed....	$2.60	$3.40	$5.00
Full Ironed....	3.90	5.75	6.75

TUBS, WASH.

Standard.				Ex.
Nos.....	3	2	1	large
Per doz....	$5.25	$6.25	$7.25	$ 9.75
Dowell.				
Per doz....	5.60	6.60	7.50	10.00
Cedar.				
Per doz....	6.50	7.50	8.25	.....
Indurated.				
Per doz....	7.20	7.95	9.45	11.70
Galvanized.				
No.....	1	2	3	
Per doz.....	$5.25	$5.75	$6.50	

TWINE.

	Per ℔
3-ply Cotton Wrapping	21c
4 " " "	21c
4 " " Extra Wrappings	27c
4 " " " Hvy. Wrappings	26c
4 " " Wrapping on tubes	23c
3 " " " cones	23c
4 " " " " "	23c
India Hemp, ¼-lb. balls	18c
" " ½-lb. "	17c
" " ¾-lb. "	doz. 65c
2-ply " ¼-lb. "	11½c
3-ply " ¼-lb. "	11½c
Jute Wrappings, ¼-lb. balls	11½c
Jute Wool, 1-℔. balls	6c
Seine.	

Nos.....	6	9	12	15+
Soft, per ℔	.24	21½	20½	20
Med. "		21½	20½	20
Hard "		23½	22½	22

Staging, ¼-lb. ball, size 21	20½c
" " " " 24	20c
" " " " 27	20c
Bagging " "	22c
3-ply "B" in hanks	19c
4 " "B" "	19c
3 " "A" "	20c
3 " Silver Finish, in hanks	20c
Fodder or Lath.	
130-strand	8c
200-strand.	8½c

VISES.
Bonney's.....30%
Cheney's 20%
Parker's Oval Slide.....
.....50, 10, 2½% @ 50 10, 5, 2½%
Parker's Parallel.....15&20%
Parker's Victor.....10%
Parker's Combination.....50&10%
Solid Box.....60&5%
Adam's Mechanics'.....each 2 65
Williamson Universal .....25&10%

WARE.
Cast-Iron Hollow.
Ground.....50&10%
Unground .....60&5%
Extra Finished.....40&10
White Enameled.....40, 10&5%
Enameled.
Cherry Blossom and Chrysolite..50%

WASH BOARDS—See Boards.

WASHERS.
Standard O. G. cast iron...per ℔. 2½c
Wrought iron in bulk per ℔.:

In.	½	⅝	¾	⅞	1	1⅛	1¼
	7½c	5½c	4c	3½c	3½c	3½c	3½c

Wrought steel in 5 ℔. boxes, per ℔.

In.	½	⅝	¾	⅞	1	1⅛	1¼
	8½c	6½c	5c	4½c	4½c	4½c	4½c

WASHING MACHINES—See Machines.

WEDGES.
Ax.....per doz....30c
Galling ....per ℔ 10½c
Saw ..... " 8½c

WEANERS.
Calf.
Fuller's, per doz.....$2 00 to $2 50
Tyler's Safety, per doz 1 85 to 2 40
Carroll's, per doz ..... 2 50 to 3 25
Standard, per doz..... 2 75
Hoosier, per doz..... 3 10 and 4 15

WEIGHTS.
Hitching ....per ℔ 2½c
Cash—F.O.B. Chicago...pr ton $22 00

WHEEL BARROWS.
Common Railroad....per doz..$15 50
Heavy " .... " .. 19 50
Railroad, ball bearing " .. 19 00
Favorite Steel Tray.. " .. 25 00
No. 04 Steel Dirt.... " .. 47 00
No. 04½ " " .... " .. 50 00

WHEELS.
Corundum .....70&10&5%
Emery .....75&5%
Well In. 8 10 12 14
Per doz.....$1.90 $2.20 $3.00 $5.50

WIRE.

Barbed	Painted.	Galv'd.
Carloads..per 100 lbs..	$2.15	$2.45
Less than car " ..	2.20	2.50

Brass.
In coils.....20%
In 1 ℔ spools, new list.....50&10%
Broom—Tinned.....60&10&10&10%
Cable—Same price as Barbed Wire.
Copper.
In coils.....20&10%33½%
In 1 ℔ spools, new list .....50&10%
Fence—Smooth.
Nos. 6 to 9, An'eal'd, pr 100 lbs. $1.95
Nos. 6 to 9, Galvi'd... " 2.25
Hair—New list.....50&10%
Market.
Bright, full bdles.....70&10%
Bright, broken bdles.....70%
Coppered, full bdles.....70%
Coppered, broken bdles.....65&10%
Tinned, full bdles.....70&5%
Tinned, broken bdles.....65&10%
Picture—In coils.....80%@80&10%
In 5 ℔. spools, ...per ℔..26c
Plain—Small lots.....$2.00
Car lots 1.95
Small spools 5c per hundred higher.

WRENCHES.
Acme Standard.....55%
Alligator .....70&10%
Always Ready.....50%
Bemis & Call No. 2 Improved Pipe Wrenches.....60%
Coe's Standard.....40&10%
Girard's Agricultural.....75&10%
P. S. & W. Co.'s Agricultural 75&10%
" " Knife H'dle..50&5%
Wescott's "S".....33½%
Malleable "S".....per ℔. 05½c
Malleable..... " 05½c
Stillson Pipe.....60&10%
Trimo " .....60&5%

WRINGERS.
Clothes.
No. 23, Guarantee....per doz.$28 00
No. 110, Guarantee.... " 29 00
No. 110, Brighton..... " 21 00
No. 22, Pioneer..... " 20 00
No. 2, Superb..... " 19 50
No. 730, Easy..... " 26 00
No. 500, Royal ..... " 30 00
No. 350, Universal.... " 25 50
No. 300, Novelty..... " 25 50
No. 310, Keystone .... " 25 50
No. 100, Rival ..... " 21 00

ADVERTISER'S INDEX.

ALPHABETICAL LIST.

American Bolt & Screw Case Co..... 63
American Lock Nut Co..... 50
American Radiator Co 49
Asphalt Ready Roofing Co..... 51
Atkins, E. C. & Co..... 68
Atlas Bolt & Screw Co 1
Atlas Mfg Co..... 68
Auld & Conger Co..... 52
Avery Stamping Co..... 55
Badger Steel Roofing Co 51
Barnett, G. & H. Co 1
Bartholow, W. P..... 52
Beckman Bros..... 50
Beckwith, Estate of P. D 18
Benbow-Brammer Mfg. Co..... 58
Benedict & Burnham Brass and Copper Co..... 53
Berger Bros. Co 52
Berger Mfg. Co.. 54
Bergstrom Stove Co 13
Bertsch & Co 50
Bishop, G. E..... 50
Blakely, Vern..... 49
Blanke & Hauk Supply Co..... 60
Blick-Williams Co..... 61
Bommer Bros..... 1
Born Steel Range Co..... 7
Boss Washing Machine Co 59
Boynton Furn. Co 11
Brammer, H. F. Mfg. Co 58
Brauer, A. G..... 56
Bridgeport Chain Co 1
Bridgeport Crucible Co 56
Burgess Soldering Furn. Co..... 53
Burton, W. J. Co 51
Canton Steel Roofing Co 54
Chapin-Stephens Co 63
Clark, Quien & Morse 53
Clayton & Lambert Mfg. Co..... 52
Clipper Lawn Mower Co..... 64
Columbian Hdw. Co..... 65
Columbus Bolt Works..... 1
Connors, Wm. Paint Mfg. Co 4
Cooney & Geiger 68
Cope, Geo. W. Pattern Works..... 56
Cortright Metal Roofing Co..... 51
Craig-Reynolds Fdy. Co. 12
Cream City Cornice Co..... 51
Dangler Stove Co..... 4
Denning Wire & Fence Co..... ... 64
Des Moines Stove Repair Co..... 57
Detroit Heating & Lighting Co..... 17
Detroit Vapor Stove Co..... 8
Dieckmann, Ferd..... 53
Diener, Geo. W. Mfg. Co..... 53
Disston, Henry & Sons..... 66
Dixon, Jos. Crucible Co..... 49
Dunlap Mfg. Co 13
Dust, Wm. T. Co..... 56
Eller, J. H. & Co..... 54
Emmelmann Bros. Mfg. Co 53
Enterprise Mfg. Co..... 68
Enterprise Mfg. Co. of Pa..... 66
Excelsior Steel Furn. Co..... 14
Ferrosteel Co..... 16
Follansbee Bros. Co..... 68
Folsom, C. G..... 61
Franklin Specialty Co..... 55
Friedley & Voshardt 52
Garry Iron & Steel Co.... 51
Gem City Stove Co..... 2
Globe Machine & Stamping Co..... 50
Globe Ventilator Co. 68
Great Western Heater Co..... 13
Grossius, John Furn Co..... 13
Harkins, T. B. Fdy. Co..... 57
Harrington & King Perforating Co... 51
Henry & Scheible Co 10
Hill Dryer Co... 55
Hoerle, W. M..... 47
Hoffman, Geo. W..... 57
Hooper, C. N..... 47
Hopkins Bros., Springer Co..... 50
Hurwood Mfg. Co..... 59
Illinois Roofing & Supply Co..... 68
Interstate Steel Co..... 53
Johnson, E. J. & Co. 52
Johnston, W. H. & Co..... 62
Joliet Stove Works..... 3
Kees, F. D..... 55
Kelsey Heating Co..... 11
Kimball Bros. Co..... 61
Kinne Mfg. Co..... 14
Kontny, John..... 12
Kramer Bros. Fdy. Co..... 55
Kruse & Dewenter..... 18
Krause Mfg. Co 65
La Crosse Steel Roofing Co 52
Lee-Glass-Andreesen Hdw. Co..... 67
Lenawee Mfg. Co..... 64
Lennox Furn. Co..... 8
Litchfield, J. M..... 57
Lufkin Rule Co..... 62
Maher & Son..... [58
Major, A..... 67
Malleable Iron Range Co..... 6
Manufacturers' Stove Repair Co 56
March-Brownback Stove Co..... 17
Marion Stove Co..... 9
McClure Co..... 68
Merchant & Co..... 51
Meyer, F. & Bro. Co..... 14
Meyer Furn. Co..... 14
Michigan Safety Furn. Pipe Co..... 14
Monroe Fdy. & Furn. Co 8
Morley Bros 6
Morris, J. L. Stove Repair Co..... 56
Mueller, L. J. Furn. Co.....10-17
Nat'l Enameling & Stamping Co..... 60
National Sheet Metal Roofing Co 51
Newport Sand Bank Co 57
Niagara Machine & Tool Works 60
Nickel Plate Stove Polish Co 57
North Bros. Mfg. Co..... 62
Obermayer, S. Co..... 57
O'Halloran & Jacobs..... 52
Ohio Tool Co..... 63
Oneida Community..... 1
Osgood Scale Co 68
Peck, C. A. Hdw. & Mfg. Co 61
Pell, John Enameling Wks..... 55
Perkins Roofing & Supply Co..... 1
Peters Cartridge Co..... 67
Pittsburgh Stove & Range Co..... 2
Plume & Atwood Mfg. Co..... 51
Plymouth Mfg. Co..... ... 60
Porter, J. E. Co..... 60
Portsmouth Stove & Range Co..... 6
Powers Bros. 68
Pullman Mfg. Co..... 63
Quincy Pattern Co..... 56
Richards Mfg. Co..... 64
Ringen Stove Co.. 4
Safety Window Lock & Ventilator Co. 61
St. Louis Electrotype Fdy..... 50
St. Paul Roofing, Cornice & Ornament Co... 54
Sandusky Tool Co 63
Sayre Stamping Co..... 56
Schwab & Sons Co..... 10
Shumway, C. W. & Sons..... 17
Signal Mail Box Co..... 61
Silver Leaf Stove Polish Co..... 56
Silver & Co 62
Smith Bros. Mfg. Co..... 60
Smith, Chas. Co..... ... 9
Smith & Hemenway Corp.. Ltd 62
Sperry, D. R. & Co..... 60
Stanley Rule & Level Co..... 63
Star Shovel & Range Co..... 8
Stowell Mfg. Co..... 50
Stowell Mfg. & Fdy. Co 16
Stuber & Kuck 64
Superior Mfg. Co..... 58
Sykes Steel Roofing Co..... 50
Taplin Mfg. Co..... ... 63
Taylor & Boggis Fdy. Co..... 65
Titchener & Co..... 58
Toledo Stove & Range Co 5
Van, John Range Co..... 7
Vedder Pattern Works..... 56
Voss Bros. Mfg. Co..... 58
Walker Tool Co..... 50
Walworth Run Fdy. Co..... . 16
Warren, J. D. Mfg. Co..... 61
Waterloo Register Co..... 16
Weiss, H. & Co 50
Weller Pattern Co..... 56
White Lily Washer Co 59
Whitlock, W. H..... 60
Williams Stove Lining Co..... 57
Zucker & Levett & Loeb Co..... 55

CLASSIFIED LIST.

Ash Sifters

Hill Dryer Co., Worcester, Mass

Bolts

Atlas Bolt & Screw Co., Cleveland, O
Columbus Bolt Wks., Columbus, O

Brass

Benedict & Burnham Brass and Copper Co., Chicago, Ill
Merchant & Co., Philadelphia, Pa
Plume & Atwood Mfg. Co., Chicago, Ill

Brazing

Hopkins Bros., Springer Co. DesMoines, Ia

Burrs—Copper

Plume & Atwood Mfg. Co., Chicago, Ill

Cans

Blanke & Hauk Supply Co., St. Louis, Mo
Stuber & Kuck, Peoria Ill

Carpenters' Tools

Hurwood Mfg. Co., Bridgeport, Ct
Ohio Tool Co., Columbus, O
Sandusky Tool Co., Sandusky, O
Stanley Rule & Level Co., N. Britain, Ct

Cartridges

Peters Cartridge Co., Cincinnati, O

Castings

Taylor & Boggis Fdy. Co., Cleveland, O
Walworth Run Fdy. Co, Cleveland, O

Ceilings—Metal

Badger Steel Roofing Co., La Crosse, Wis
Berger Mfg. Co., Canton, O
Burton, W. J. Co., Detroit, Mich
Canton Steel Roofing Co., Canton, O
Eller, J. H. & Co., Canton, O
Friedley & Voshardt, Chicago, Ill
Illinois Roofing & Supply Co., Chicago, Ill
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Cement Tools

Kramer Bros. Fdy. Co., Dayton, O

Chains

Bridgeport Chain Co., Bridgeport, Ct
Oneida Community, Oneida, N.Y

Clothes Dryers

Hill Dryer Co., Worcester, Mass

Coal—Artificial

Williams Stove Lining Co., Taunton, Mass

Coffee Mills

Enterprise Mfg. Co., of Pa., Philadelphia

Conductor Hangers

Berger Bros. Co., Philadelphia, Pa

Conductor Pipe

Badger Steel Roofing Co., La Crosse, Wis
Berger Bros. Co., Philadelphia, Pa
Berger Mfg. Co., Canton, O
Clark, Quien & Morse, Peoria, Ill
Friedley & Voshardt, Chicago, Ill
Garry Iron & Steel Co., Cleveland, O
La Crosse Steel Roof. Co., La Crosse, Wis

Copper

Benedict & Burnham Brass and Copper Co., Chicago, Ill
Merchant & Co, Philadelphia, Pa

Corn Cribs

Denning Wire & Fence Co., Cedar Rapids, Ia

Cornices

Berger Mfg. Co., Canton, O
Cream City Cornice Co., Milwaukee, Wis
Eller, J. H. & Co., Canton, O
St. Paul Roofing, Cornice & Ornament Co., St, Paul, Minn

Cornice Brakes

Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Wks., Buffalo, N.Y
Walker Tool Co, Lansing, Mich

Corrugated Iron

Garry Iron & Steel Co., Cleveland. O
Sykes Steel Roofing Co., Chicago, Ill

Cream Separators

Blanke & Hauk Supply Co., St. Louis, Mo
Plymouth Mfg. Co., Plymouth, O
Smith Bros. Mfg. Co., Indianapolis, Ind
Whitlock, W. H, Libertyville, Ia

Cut Offs—Rain Water

Cooney & Geiger, Indianapolis, Ind
La Crosse Steel Roof. Co., La Crosse, Wis

Cutlery

Ohio Tool Co., Columbus, O
Smith & Hemenway, Corp., Ltd. New York

Dairy Supplies

Blanke & Hauk Supply Co., St. Louis, Mo

Dampers

Dust, Wm. T. & Co., Detroit, Mich
Kramer Bros. Fdy. Co., Dayton, O
Sayre Stamping Co., Sayre, O
Taylor & Boggis Fdy. Co., Cleveland, O

Dies

Globe Mch. & Stamp Co., Cleveland, O

Door Hangers

Stowell Mfg. & Fdy. Co., South Milwaukee, Wis
Richards Mfg. Co., Aurora, Ill

Door Pulls

Columbian Hdw. Co., Cleveland, O

Drills

North Bros. Mfg Co., Philadelphia. Pa

Eaves Trough

Badger Steel Roofing Co., La Crosse, Wis
Eller, J. H. & Co., Canton, O
Garry Iron & Steel Co., Cleveland, O
La Crosse Steel Roof. Co., La Crosse, Wis

Egg Beaters

Taplin Mfg. Co., New Britain. Ct

Elbows—Conductor Pipe

Badger Steel Roofing Co., LaCrosse, Wis
Dieckmann, F., Cincinnati, O

Electrotypes

St. Louis Electrotype Fdy., St. Louis, Mo

Elevators

Kimball Bros. Co., Council Bluffs, Ia

Enamel Ware

Avery Stamping Co., Cleveland, O
Nat'l Enamel. & Stamp. Co., Milwaukee

Enameling

Hooper. C. N., Dubuque, Ia
Pell, John Enameling Wks., Columbus, O

Faucets

Litchfield, J. M., New York, N.Y

Fence Gates

Denning Wire & Fence Co., Cedar Rapids, Ia

Files

Barnett, G. & H. Co., Philadelphia, Pa
Disston Henry & Sons, Philadelphia, Pa

Flue Stoppers

Stuber & Kuck, Peoria,

Forming Rolls

Bertsch & Co., Cambridge City, Ind
Bishop, G. E., Dowagiac, Mich
Globe Mch. & Stamp. Co., Cleveland, O
Niagara Mch. & Tool Wks., Buffalo, N.Y
Walker Tool Co., Lansing, Mich

Foundry Supplies

Obermayer, S. Co., Cincinnati, O
Zucker & Levett & Loeb Co., New York

Furnaces—Hot Air

Beckwith, Estate, P. D. Dowagiac, Mich
Bergstrom Stove Co., Neenah, Wis
Boynton Furnace Co., Chicago, Ill
Craig-Reynolds Fdy. Co., Dayton, O
Detroit Heating & Lighting Co., Detroit, Mich
Excelsior Steel Furnace Co., Chicago, Ill
Grossius Furn. Co., Cincinnati, O
Henry & Scheible Co., Cleveland, O
Kelsey Heating Co., Syracuse, N.Y
Kontny, John, Chicago, Ill
Kruse & Dewenter, Indianapolis, Ind
Lennox Furnace Co., Marshalltown, Ia
March-Brownback Stove Co., Pottstown, Pa
Meyer Furn. Co., Peoria, Ill
Monroe Fdy. & Furn. Co., Monroe, Mich
Mueller, L. J. Furn. Co., Milwaukee, Wis
Pittsburgh Stove & Range Co., Pittsburgh, Pa
Portsmouth Stove & Range Co., Portsmouth,
Schwab & Sons Co., Milwaukee, Wis
Shumway & Sons, Batavia, Ill
Smith, Chas, Co., Chicago, Ill

Furnace Pipe and Fittings

Excelsior Steel Furn. Co., Chicago, Ill
Meyer, F. & Bro. Co., Peoria, Ill
Michigan Safety Furn. Pipe Co., Detroit
Mueller, L. J. Furn. Co., Milwaukee, Wis
Nat'l Enam. & Stamp. Co., Milwaukee

Furnace Repairs
Des Moines Stove Repair Co., Des Moines, Ia
Dust, Wm. T. Co., Detroit, Mich
Morris Stove Repair Co., Chicago. Ill

Furnace Rings
Walworth Run Fdy. Co., Cleveland, O

General Merchandise
Silver & Co. Brooklyn, N.Y

Grass Carriers
Krause Mfg. Co., Chicago

Hammers
Franklin Specialty Co., Reading, Pa

Hangers—Trouser
Pullman Mfg. Co., Rochester, N. Y

Hardware Jobbers
Clark. Quien & Morse, Peoria, Ill
Lee-Glass-Andreesen Hdw. Co., Omaha

Hardware Specialties
Columbian Hdw. Co., Cleveland, O
Hoerle. W. M., Allegheny, Pa
Johnston, W. H. Mfg. Co., Peoria, Ill
Taylor & Boggis Fdy. Co., Cleveland, O

Hatchets
Franklin Specialty Co., Reading, Pa

Hay Carriers
Porter, J. E., Co., Ottawa, Ill
Richards Mfg. Co., Aurora, Ill
Stowell Mfg. & Fdy. Co., Milwaukee

Heaters—Steam and Hot Water
American Radiator Co., Chicago, Ill
Boynton Furnace Co., Chicago, Ill
Craig-Reynolds Fdy. Co., Dayton, O
Great Western Heater Co., DesMoines, Ia
Monroe Fdy. & Furn. Co., Monroe, Mich
Mueller, L. J. Furn. Co., Milwaukee, Wis

Hinges—Spring
Bommer Bros., Brooklyn, N.Y
Lawson Mfg. Co., Chicago, Ill

Hoes
Sandusky Tool Co., Sandusky, O

Hollow Ware
Avery Stamping Co., Cleveland, O
Sperry, D. R. & Co., Batavia, Ill

Hot Water Attachments
Smith Co., Chas., Chicago, Ill

Ice Cream Freezers
North Bros. Mfg. Co., Philadelphia, Pa

Ice Picks
Franklin Specialty Co., Reading, Pa
Hurwood Mfg. Co., Bridgeport, Ct

Kitchen Utensils
Enterprise Mfg. Co. of Pa., Philadelphia
Silver & Co., Brooklyn, N.Y
Tapin Mfg. Co., New Britain, Ct

Land Boats
Johnston, W. H. Mfg. Co., Peoria, Ill

Lanterns
Berger Mfg. Co., Canton, O
Hurwood Mfg. Co., Bridgeport, Ct

Lawn Mowers
Clipper Lawn Mower Co., Dixon, Ill

Levels
Chapin-Stephens Co., Pine Meadow, Ct
Ohio Tool Co., New York, N.Y
Stanley Rule & Level Co., New Britain, Ct

Lighting Systems
Detroit Heating & Lighting Co., Detroit, Mich
Superior Mfg. Co., Ann Arbor, Mich

Lightning Rods
Maher & Son, Preston, Ia

Locks
Taylor & Boggis Fdy. Co., Cleveland, O

Mail Boxes
Blick-Williams Co., Indianapolis, Ind
Folsom, C. G., South Bend, Ind
Peck, C. A., Hdw. & Mfg. Co. Berlin, Wis
Signal Mail Box Co., Joliet, Ill
Smith Bros. Mfg. Co., Indianapolis, Ind

Meat Choppers
Enterprise Mfg. Co. of Pa., Philadelphia
Smith & Hemenway, Corp., Ltd. New York

Metal Polish
Hoffman, Geo. W., Indianapolis, Ind

Metal Shingles
Burton, W. J. Co., Detroit, Mich
Cortright Metal Roofing Co., Philadelphia
Nat'l Sheet Metal Roof. Co., Jersey City

Mica
Brauer, A. G St. Louis, Mo
Dust, Wm. T. Co. Detroit, Mich
Morris Stove Repair Co., Chicago, Ill

Molding Sand.
Newport Sand Bank Co., Newport, Ky

Nail Pullers
Smith & Hemenway, Corp., Ltd. New York

Nuts
American Lock Nut Co., Oregon, Ill
Atlas Bolt & Screw Co., Cleveland, O
Columbus Bolt Works, Columbus. O

Oil Cans
Cooney & Geiger, Indianapolis, Ind

Paints
Connors, Wm. Paint Mfg. Co., Troy, N.Y
Dixon, Jos. Crucible Co., Jersey City, N.J

Pattern Letters
St. Louis Electrotype Fdy., St. Louis

Pencils
Dixon, Jos. Crucible Co., Jersey City, N.J

Perforated Metal
Harrington & King Perforating Co., Chicago, Ill

Planes
Chapin-Stephens Co., Pine Meadow, Ct
Ohio Tool Co., Columbus, O
Sandusky Tool Co., Sandusky, O
Stanley Rule & Level Co., New Britain, Ct

Plyers
Hurwood Mfg. Co., Bridgeport, Ct

Printing
Blakely. Vern. North Girard, Pa

Pumps
Beckman Bros., Des Moines, Ia
Berger Mfg. Co., Canton, O

Punches
American Lock Nut Co., Oregon, Ill
Bertsch & Co., Cambridge City, Ind
Globe Mch. & Stamp. Co., Cleveland, O
Niagara Mch. & Tool Wks., Buffalo, N.Y
Walker Tool Co., Lansing, Mich
Weiss. H. & Co., New York, N.Y

Radiators
American Radiator Co., Chicago, Ill

Rasps
Barnett, G. & H. Co., Philadelphia, Pa
Disston, Henry & Sons., Philadelphia, Pa

Registers
Ferrosteel Co., Cleveland, O
Henry & Scheible Co., Cleveland, O
Mueller, L. J., Furn. Co., Milwaukee, Wis
Schwab & Sons Co., Milwaukee, Wis
Stowell Mfg. & Fdy. Co., Milwaukee, Wis
Walworth Run Fdy. Co., Cleveland, O
Waterloo Register Co., Waterloo, Ia

Roofing—Asphalt
Asphalt Ready Roofing Co., New York
Stowell Mfg. Co., Jersey City, N.J

Roofing—Iron and Steel
Badger Steel Roofing Co., La Crosse, Wis
Berger Mfg. Co.; Canton, O
Burton, W. J. Co., Detroit, Mich
Canton Steel Roofing Co., Canton, O
Cortright Metal Roof. Co., Philadelphia
Follansbee Bros. Co., Pittsburgh, Pa
Friedley & Voshardt, Chicago, Ill
Garry Iron & Steel Co., Cleveland, O
La Crosse Steel Roof. Co., La Crosse, Wis
Nat'l Sheet Metal Roof. Co., Jersey City
Perkins Roofing & Supply Co., Chicago
St. Paul Roofing, Cornice & Ornament Co., St. Paul. Minn
Sykes Steel Roofing Co., Chicago, Ill

Roofing Cement
Connors, Wm. Paint Mfg. Co., Troy, N.Y
Garry Iron & Steel Co., Cleveland, O

Roof Paint
Conners, Wm. Paint Mfg. Co. Troy, N.Y
Dixon, Jos. Crucible Co., Jersey City, N.J
Garry Iron & Steel Co., Cleveland, O
Stowell Mfg. Co., Jersey City, N.J

Rules
Chapin-Stephens Co., Pine Meadow, Ct
Lufkin Rule Co., Saginaw. Mich
Stanley Rule & Level Co., New Britain, Ct

Sad Irons
Enterprise Mfg. Co. of Pa., Philadelphia, Pa

Sash Balances
Pullman Mfg. Co., Rochester, N.Y

Saw and Saw Sets
Atkins. E. C. & Co., Indianapolis, Ind
Disston, Henry & Sons, Philadelphia, Pa

Scales
Beckman Bros., Des Moines, Ia
Osgood Scale Co. Binghamton, N.Y

Screen Hinges
Kees, F. D., Beatrice, Neb

Screws
Atlas Bolt & Screw C Cleveland, O
Columbus Bolt Works, Columbus, O

Screws—Hand
Chapin-Stephens Co., Pine Meadow, Ct
Ohio Tool Co., Columbus, O
Sandusky Tool Co., Sandusky, O

Screw Drivers
Hurwood Mfg. Co., Bridgeport, Ct
North Bros. Mfg. Co., Philadelphia, Pa
Smith & Hemenway, Corp., Ltd. New York

Shears
Bertsch & Co., Cambridge City, Ind
Niagara Mch. & Tool Wks., Buffalo, N.Y
Weiss, H. & Co., New York, N.Y

Sheet Metal Specialties
Friedley & Voshardt, Chicago, Ill
St. Paul Roofing Co., St. Paul, Minn
Kinne Mfg. Co., Minneapolis

Sheets—Black and Galvanized
Berger Mfg. Co., Canton, O
Badger Steel Roofing & Corrugating Co., La Crosse, Wis
Interstate Steel Co., Brackenridge, Pa

Shelf-Brackets
Atlas Mfg. Co., New Haven Ct

Shelving—Hardware
American Bolt & Screw Case Co., Dayton, O
Warren, J. D. Mfg. Co., Chicago, Ill

Shovels
Avery Stamping Co., Cleveland, O
Star Shovel & Range Co., Vincennes, Ind

Sifters
Stuber & Kuck, Peoria, Ill

Skylight Gearing
Weiss, H. & Co., New York, N.Y

Slate
Auld & Conger Co., Cleveland, O
Johnson, E. J. & Co., New York, N.Y
O'Halloran & Jacobs, Pittsburgh, Pa

Soldering Furnaces
Burgess Soldering Furn. Co., Columbus, O
Clayton & Lambert Mfg. Co., Detroit
Diener, Geo. W. Mfg. Co., Chicago

Soldering Irons
Bartholow, W. P., Minneapolis, Minn
Emmelmann Bros. Mfg. Co., Indianapolis

Sporting Goods
Enterprise Mfg. Co., Akron, O

Squares, Machinists'
Disston, Henry & Sons, Philadelphia, Pa
Stanley Rule & Level Co., New Britain, Ct

Stampings—Sheet Metal
Globe Machine & Stamping Co., Cleveland, O
Hoerle, W. M., Allegheny, Pa

Staples
Titchener & Co., Binghamton, N.Y

Stoves and Steel Ranges
Beckwith, P. D. Estate Dowagiac, Mich
Bergstrom Stove Co., Neenah, Wis
Born Steel Range Co., Cleveland, O
Gem City Stove Co., Dayton, O
Harkins, T. B. Fdy. Co., Bristol, Pa
Joliet Stove Works, Joliet, Ill
Kontny, John, Chicago, Ill
Litchfield, J. M., New York, N.Y
Landay Steel Range Co., St. Louis
March-Brownback Stove Co., Pottstown, Pa
Marion Stove Co., Marion, Ind
Pittsburgh Stove & Range Co. Pittsburgh, Pa
Portsmouth Stove & Range Co., Portsmouth, O
Star Shovel & Range Co., Vincennes. Ind
Taylor & Boggis Fdy. Co., Cleveland, O
Toledo Stove & Range Co., Toledo, O
Van, John Range Co., Cincinnati, O

Stoves—Gas
Pittsburgh Stove & Range Co., Pittsburgh, Pa
Silver & Co., Brooklyn, N.Y

Stoves—Gasoline
Dangler Stove Co., Cleveland, O
Detroit Vapor Stove Co., Detroit, Mich
Ringen Stove Co., St. Louis, Mo
Litchfielk, J. M., New York, N.Y

Stoves—Oil
Nat'l Enamel. & Stamp. Co., Milwaukee
Silver & Co., Brooklyn, N.Y
Taylor & Boggis Fdy. Co., Cleveland, O

Stove Carriers
Kramer Bros. Fdy. Co., Dayton, O

Stove Casters
Kramer Bros. Fdy. Co., Dayton, O

Stove Cement
Dixon, Jos. Crucible Co., Jersey City, N.J

Stove Clay
Bridgeport Crucible Co., Bridgeport, Ct
Nickel Plate Stove Polish Co., Chicago
Williams Stove Lining Co., Taunton, Mass

Stove Linings
Williams Stove Lining Co., Taunton, Mass

Stove Mats
Stuber & Kuck, Peoria, Ill

Stove Patterns
Cope Pattern Wks., Detroit, Mich
Harkins, T. B. Fdy. Co., Bristol, Pa
Quincy Pattern Co., Quincy, Ill
Vedder Pattern Works, Troy, N.Y
Weller Pattern Co., Quincy, Ill

Stove Pipe
Dunlap Mfg. Co., Dunlap, Ia
Excelsior Steel Furn. Co., Chicago, Ill
Kinne Mfg. Co., Minneapolis

Stove Pipe Thimbles
Stuber & Kuck, Peoria, Ill

Stove Polish
Nickel Plate Stove Polish Co., Chicago
Silver Leaf Stove Polish Co., Indianapolis, Ind

Stove Repairs
Brauer, A. G., St. Louis, Mo
Des Moines Stove Repair Co., Des Moines, Ia
Dust, Wm. T. Co., Detroit, Mich
Kramer Bros. Fdy, Co Dayton, O
Manufacturers' Stove Repair Co., Chicago
Morris, Stove Repair Co., Chicago, Ill

Sugar Kettles
Sperry & Co., Batavia, Ill

Tapes
Lufkin Rule Co., Saginaw, Mich

Tinplate
Berger Mfg. Co., Canton, O
Canton Steel Roofing Co., Canton, O
Eller, J. H. & Co. Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Garry Iron & Steel Co., Cleveland, O
Illinois Roofing & Supply Co., Chicago, Ill
Lee-Glass-Andreesen Hdw. Co., Omaha
McClure Co., Philadelphia, Pa
Merchant & Co., Philadelphia, Pa

Tinware
Nat'l Enamel. & Stamp. Co., Milwaukee
Stuber & Kuck, Peoria, Ill
Vollrath Mfg. Co., Chicago, Ill

Toilet Paper Holders
Franklin Specialty Co., Reading, Pa

Trowels
Avery Stamping Co., Cleveland, O
Disston, H. & Sons, Philadelphia, Pa

Ventilators
Friedley & Voshardt, Chicago, Ill
Globe Ventilator Co., Troy, N.Y
Merchant & Co., Philadelphia, Pa
Powers Bros., Streator, Ill

Washing Machines
Benbow-Brammer Mfg. Co., St. Louis, Mo
Boss Washing Machine Co., Cincinnati, O
Brammer, H. F. Mfg. Co., Davenport, Ia
Clark, Quien & Morse, Peoria, Ill
Voss Bros. Mfg. Co., Davenport, Ia
White Lily Washer Co., Davenport. Ia

Water Coolers
Major, A., New York, N.Y

Window Fasteners
Safety Window Lock & Ventilator Co., Chicago, Ill

Wire Anchors
Lenawee Mfg. Co., Adrian, Mich

Wire Goods
Denning Wire & Fence Co., Cedar Rapids, Ia
Titchener Co., Binghamton, N.Y

Wants and Sales.

For yearly subscribers to THE AMERICAN ARTISAN will be inserted under this head advertisements of six lines WITHOUT CHARGE for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.

BUSINESS CHANCES.

PATENTS

HUBERT E. PECK, 623 F St., N. W., Washington, D. C. Consulting Expert in Patent Causes. U. S. and Foreign Patents. Send for leaflet on "Rejected Patent Applications."

Wanted—A good place to go in business by young married man, German, tinner by trade; am a man of good habits, strictly honest; would like to buy out a small stock of hardware or go in partnership with the right man; have a capital of about $2,000.00. Address Columbus Hardware Co., Columbus, Wis. 15

Wanted—Location in the West for a shop by a sheet metal worker with complete set of tools and cornice brake. Address E. R. Klesman, 2593 115th St., Chicago, Ill. 15

Wanted—Good location to put in a stock of hardware. Address A. E. Glines, Belle Plaine, Iowa. 15

For Sale—One set of tinner's tools, in good condition; reason for selling, going to quit business. Address "F," care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 15

For Sale—A well established hardware, furnace and plumbing business in central Wisconsin town, 2,000 inhabitants. Splendid farming trade. Reason for selling, sickness. Address Central Wisconson, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 14

For Sale—A business established 15 years will sell cheap on account of death, one set of tinner tools and stock; all in good order cheap for cash. Address The Allison-Hill Tin, Sheet Iron & Furnace Co., 634 18th St., Denver, Colo. 13

TINNERS' TOOLS.

Wanted—One set of tinner's tools, second hand. Address Amos Alger, 803 Hayner St., Dayton, Ohio. 15

For Sale—1 No. 2 nickel-plated instantaneous water heater for gas or gasoline, 2 outlets, with nickel-plated stand, complete, never used; wholesale cost $46.00, will sell for $33.00 cash; guaranteed perfect. Address M. Hosteman & Son, Mansfield, Wis. 15

Wanted—At once, first-class tinner and furnace man, one who can do plumbing also; must be strictly sober; married man preferred. Address Box 63, North Baltimore, Ohio. 15

Wanted—A good second-hand lathe with screw cutting attachment. Address Bradberry Bros., Hurley, S. D. 13

HELP WANTED.

Wanted—Tinner and hot air furnace man, who has some knowledge of plumbing; steady work all the year round; must be sober. Address Crosby & Simpson, Savannah, Missouri. 15

Wanted—Tinner; must be able to do slate and tin roofing, spouting, guttering and hot air furnace work; wages $2.25 for ten hours; must be strictly sober and honest. Address J. A. Bucklew, Ashland, Ohio. 15

Wanted—All-around tinner, German preferred, young single man; must understand plumbing to some extent; steady job to steady man. Address Briley Bros., Dell Rapids, South Dakota. 15

Wanted—At once, experienced tinner who is temperate. Must understand all kinds of general work and be able to speak German. Only honest, sober, reliable man need apply. Steady work to the right man. Good wages the year round. Married man preferred. Address W. R. Yahr, Princeton, Wis. 15

Wanted—At once, good tinner, who understands tinwork, guttering, plumbing, furnace and pipe work; steady work to the right man; state wages and experience in first letter, also references. Address Rud Fuchner, Wittenberg, Wis. 15

Wanted—April 1st, an all-around tinner, one that understands furnace work and has some knowledge of plumbing; steady job year around; none but strictly temperate need apply. Address Moweaqua Hardware & Furniture Co., Moweaqua, Ill. 15

Wanted—Salesman acquainted with the trade in natural gas territory, to sell our line of gas heaters; good opening for a man who can get the business. Address Herrmann & Myers, Tiffin, Ohio.

Wanted—At once, tinner for inside and outside work. Steady job by the year for the right man. Address Lock Box 17, Manson, Iowa. 15

Wanted—Few good salesmen to sell gas heaters on commission. Address "Box M," care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 15

Wanted—Good tinner and slater; must be sober and reliable; must also be able to do slate, tinwork and all kinds of job work; steady work for right man. Address 340 High St., Hamilton, Ohio. 15

Wanted—Good tinner; steady work; must have good, clean habits; nine hours a day; state wages wanted, experience and references. Address C. DeWitt Wagner, 406 Third Ave., Cedar Rapids, Ia. 15

Wanted—Good all-around tinner, at once; good, steady job for the right man; wages $12.00 per week. Address J. Fink & Sons, Kenton, Ohio. 15

Wanted—Young tinner and hardware clerk, some experience in pump and pipe work; must be honest and sober; single man preferred; state wages. Address Johnson Bros., Newcastle, Neb. 15

Wanted—Clerk and tinner, one who can do inside and outside work; Norwegian preferred; state wages wanted, experience and references; must be sober. Address Sober, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 15

Wanted—Two good tinners; steady work all the year around; good wages. Address Charles Skidd, Kenosha, Wis. 15

Wanted—First-class sheet metal worker; must understand furnace work. Address Aug. Schwien Stone Co., St. Joseph, Mo. 15

Wanted—Clerk and salesman in retail hardware store, handling stoves, ranges and pumps, also do tin and sheet iron work. State in what line most proficient and experienced. Also state wages wanted for steady place with chances for advancement. Address K. 35, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 15

Wanted—At once, first-class sober tinner, able to do anything that comes in a shop, must thoroughly understand hot air furnace work, steady job to the right man. Address Box 77, Chrisman, Ill. 14

Wanted—At once, a good tinner, must thoroughly understand spouting, roofing, gutter work and hot air furnaces, must also help in store. Must be honest and temperate, married man preferred. Good job year around for good man, with good wages. Address Bunnell & Piper, Monticello, Ind. 14

Wanted—Tinners, good on outside tinwork and slate roofing. Good wages and steady work to sober, competent men. State full particulars in first letter. Address Schiedt Bros., Zanesville, O. 14

Wanted—At once, good blacksmith and horse-shoer. Please state wages wanted and give references in first letter. Address A. E. Palmer, Waverly, Kas. 14

Wanted—Foreman for plumbing and tin shop, one who is a practical mechanic in both lines and able to figure from plans and detail work. Must be well recommended. Address Tin Shop, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 14

Wanted—Good all round man at once to do shop work, spouting and roofing, also able to set up machinery. Norwegian preferred. Give best of references and wages in first letter. Address K. J. Questad, Baltic, S. D. 14

Wanted—At once, competent tinner, who can do general job work. Good wages, steady employment. Address Competent, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 14

Wanted—Clerk for retail hardware store, one with some knowledge of tin work preferred. References required. Apply at once. Address G. B. Watrous & Son, Waukegan, Ill. 14

Wanted—A good all around tinner and furnace man; must be a good handy mechanic; married man preferred; steady job by year; state wages wanted. Address G. care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13

Wanted—An all around tinner and H. A. furnace man; state wages expected and if married; also give reference in first letter. Address Wm. Frey, Beardstown, Ill. 13

Wanted—Tinner; one that has some knowledge of plumbing preferred; also plumber; one that can do some tinning preferred; state wages wanted; married or single. Address F. B. Karl, Delaware, O. 13

Wanted—At once, a first-class, sober tinner, able to do all kinds of job work; thoroughly understands furnace work; all kinds of roofing; one that understands saw mill blow pipe work; a young and active married man preferred; steady job and good wages. Address H. W. Kuehner, foreman with Watson Bros., 1423 Grant St., Marinette, Wis. 13

Wanted—Tinner, one that can do roofing, spouting and job work; no booze fighters wanted; wages $2.50 per 10 hours. Address Chas. Wolf, Mt. Vernon, O. 13

Wanted—At once, a good tinner who thoroughly understands the business, also furnace work, hot water and plumbing; to take charge of shop, steady work the year around for the right man; good wages; must be absolutely sober and honest; state wages in first letter; married man preferred and one that can speak German. Address Jaehning Bros., Redwood Falls, Minn. 13

Wanted—Line stove salesman for Kansas, Nebraska and Missouri trade; state fully experience and salary wanted. Address D. & M., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13

Wanted—A1 stove salesman for Illinois, Indiana and Missouri trade; state fully experience, references and salary wanted. Address Williams, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13

Wanted—Clerk and tinner, one who can do inside and outside work and have some knowledge of warm air furnace work. Address Walter & Doenel, Norway, Iowa. 13

Wanted—A good tinner, who understands tin work, hot air furnace work and some plumbing; state wages, experience and references; steady job year around. Address Lock Box 39, Fairfield, Ill. 13

Wanted—Foreman and estimator to take charge of a shop employing on an average of four men; just a good competent, sober tinner who will work just the same as the workmen in the shop, but who knows how to take work off plans and figure it out and keep the men at work and run the tin shop. We do tin, galvanized iron and slate work, install furnaces and do general job work in the shop; state your age, salary expected; with whom you have had service and other particulars. Address J. E. Guenther, Owensboro, Ky. 13

SITUATIONS WANTED.

Wanted—Situation, by sober, married man as tinner in town of three to eight thousand inhabitants; have twelve years' experience inside and outside and in furnace work; state wages. Address W. C. H., 1047 Villa St., Racine, Wis. 15

Wanted—Situation by tinner; can speak German only; learned trade in foreign country. Address Columbus Hardware Co., Columbus, Wis. 15

Wanted—Situation as clerk in hardware store by young man with 14 years' experience; am thorough hot air furnace man; can figure from plans, make estimates, draw plans, lay out and install work; state salary in first letter. Address Hardwareman, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 15

Wanted—Situation by competent, sober mechanic with 15 years' experience at job work, furnace work, plumbing, hot water heating, tinware, roofing, pumps, etc.; am married; state wages. Address Tinner, 404 S. Main St., Rockford, Ill. 15

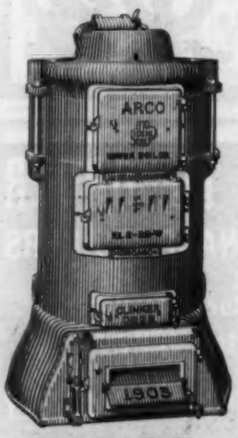
Wanted—Position with a hardware and implement firm as tinner and all around man. Can do furnace work, plumbing, steam and hot water heating, also clerk in store. Good steady position with good wages wanted. Can give best of references. Address Box P. O., care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 14

Hard-wearing

Of all things of iron few products are better able to come under the general classification of "Hardware" than IDEAL Boilers and AMERICAN Radiators—for warming all kinds of buildings by Steam and Hot Water, from 4-room cottage up.

Because—they are so thoroughly made from hard hammered ideas that they will wear a lifetime—outwear most any building.

Dealers are invited to send for our valuable pamphlets.



Ideal Arco Boiler for Water.

IDEAL Boilers,
IDEAL Tank Heaters,
AMERICAN Radiators.

AMERICAN RADIATOR COMPANY

General Offices: 282-284 Michigan Avenue, Chicago.

New York, 42-44 E. 20th St.
Boston, 44 Oliver St.
Philadelphia, 1342 Arch St.
Baltimore, 109 E. Lombard St.
Buffalo, Court and Franklin Sts.
Pittsburg, 926 Farmers' Bank Bldg.
Cincinnati, 336 W. Fourth St.
Chicago, 282-284 Michigan Ave.
Milwaukee, 126 Sycamore St.
Detroit, 225 Jefferson Ave.
St. Louis, 207-209 N. Tenth St.
Minneapolis, 204-206 Fourth St. So.
Omaha, 417 S. Fifteenth St.
Denver, 831 Fifteenth St.
Seattle, 320 Lumber Exchange

SPECIAL NOTICES.

FOR SALE

A lot of light and heavy sheet iron and plate rolls; also lever, treadle and belt power shears; all in good working order.
BERTSCH & CO.,
Cambridge City, Ind.

WANTED

A superintendent; one who has had full charge of a plant that manufactures stoves, ranges, gas stoves and furnaces. None but A1 need respond. State salary desired and full particulars. Address Buckeye State, care THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago. 15

The Activ Patents

Opportunities come, opportunities go. Seize while you may. Steel sheet workers, brass founders, braziers, required to make and push sale. Enterprising firms only treated with. Address, A. W. MELDRUM & CO., Wellflat Works, Kirkliston, Scotland.

WANTED

An active, experienced, thoroughly competent foreman for the sheet iron department of a large stove and range manufactory in Ohio. Give age, experience, references and wages desired. Correspondence strictly confidential. Address, Satisfaction No. 7, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 3t.13

WANTED

To buy patents of articles made of Sheet Metal. Address "SHEET METAL," 115 Third St., Middletown, Ohio. 9t.12

C. N. HOOPER, Dubuque, Iowa.

VITREOUS ENAMELING TECHNOLOGIST

Designs, builds and starts new plants. Improves quality and reduces the costs in those already established.

FOR SALE

Complete volumes of THE AMERICAN ARTISAN AND HARDWARE RECORD for 1902 and 1903, price $3.00 for each year. Address Retired, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Illinois.

FOR SALE

Clean stock of hardware, stoves, etc., invoicing at about $5,500 in live town of 9,000 in southeastern Nebraska, county seat, three railroads. Business established 25 years. Wish to give all my time to my manufacturing business. Address F. D. KEES, Beatrice, Neb. 8t.12

PRINTING

1,000 Envelopes (white), 6¾ XXX..	$1.60
1,000 Letter Heads, flat writing	1.65
1,000 Packet Letter Heads.....	1.50
1,000 Business Cards.....	1.45
1,000 Shipping Tags.....	1.00
1,000 Statements.....	1.50
500 Blotters.....	2.00

Discount on large orders. Write me for prices on any kind of printing. Estimates cheerfully furnished.

V. BLAKELY-PRINTERY,
North Girard, Erie County, Pa.

Refer to the **Buyer's Directory**

APRIL

"GRAPHITE"

A SPECIAL ILLUSTRATED NUMBER CONTAINING SEASONABLE TALKS ON GOOD PAINT AND GOOD PAINTING.
Copies free upon request.

Joseph Dixon Crucible Co., Jersey City, N. J.

WE BUILD

Power Punches, Lever Punches, Lever Shears and Bolt Cutters.

We equip shops and factories with Power, Gasoline or Steam Engines. We make all kinds of dies and special tools for the trade. Write for free booklet. Address,

WALKER TOOL CO., 132 Steel St. Lansing, Mich.

LEVER SHEAR.

This Lever Shear is made in seven sizes. It is a convenient tool for shearing plates, bars or angle iron. We build a complete line of Shears, Punches and Bending Rolls, all sizes, for hand or power

BERTSCH & COMPANY,
Cambridge City, Ind.

It Is Acknowledged

PRICE

3½-in.	$ 50
4 "	60
4½ "	65
5 "	75
6 "	1 00

by the best workmen to be the only way to close the end of an eave trough, as corrugations are **Proof Against Frost.**

Order a set of tools today from any jobber or tinner's supply house.

G. E. BISHOP, HARDWARE
DOWAGIAC, - MICH.

Freight charges are sometimes heavy charges. We can save you money.

We are large manufacturers — small profits, many sales.

SYKES STEEL ROOFING CO.
Chicago, Ill. and Niles, Ohio.
Mfrs. Steel Roofing, Corrugated Iron, etc.

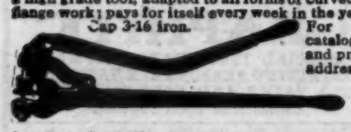
PORTABLE ASPHALT ROOFING

THE WORLD'S BEST

Monarch, Felspar, Slag, Asbestos, Cork, Gravel, 1, 2, 3-ply Paints, Cement.
Write for Samples, Prices and Booklet.
Our line brings trade—
Gives universal satisfaction.

STOWELL MFG. CO., JERSEY CITY, N. J.

PATENT LIGHTING PORTABLE PUNCH NO. 3; a high grade tool, adapted to all forms of curved or flange work; pays for itself every week in the year. Cap 3-16 iron.



For catalog and price address

American Lock Nut Company, Oregon, Illinois

TOOLS FOR SHEET METALS

Single and Double Lock Edger.

INCLUDING

Tinners' and Roofers' Tools, Shears, Punches, Presses and Dies, Can-Making Machinery

MADE BY

NIAGARA MACHINE & TOOL WORKS, Buffalo, N. Y.

H. WEISS & CO.

20 CLIFF STREET, NEW YORK.

SKYLIGHT GEARING AND CHAIN LIFTS

TINSMITHS' & PLUMBERS' TOOLS.
CORNICE MAKERS' TOOLS.
COPPERSMITHS' TOOLS.
PIPE THREADING MACHINES.

SECOND-HAND GOODS BOUGHT, SOLD AND EXCHANGED.

DIES AND STAMPINGS TO ORDER

FOR STEEL RANGE AND FURNACE MAKERS

Hardware Specialties, Etc., Manufactured to Order.
Send Samples of Drawings for Estimates. WRITE FOR OUR BOOKLET.

THE GLOBE MACHINE & STAMPING COMPANY
971 Hamilton Street, CLEVELAND, OHIO

BRAZING CAST IRON

With Springer's BRAZOL

Guaranteed to braze cast iron, also brazes steel, iron, etc.; 25 to 50% added to your repair shop by brazing cast iron with "BRAZOL."

Used by all railroad shops, machine, automobile and bicycle shops, etc.

Dealers Wanted.

Hopkins Bros., Springer Co.,
Manufacturers,
DES MOINES, IOWA.

INDUSTRIES ARE OFFERED LOCATIONS

WITH

Satisfactory Inducements,
Favorable Freight Rates,
Good Labor Conditions,
Healthful Communities,

ON THE LINES OF

THE ILLINOIS CENTRAL R. R.
AND THE
YAZOO & MISSISSIPPI VALLEY R. R.

For full information and descriptive pamphlet address

J. C. CLAIR, Industrial Commissioner,
1 Park Row, CHICAGO.

PATTERN LETTERS
WE HAVE THEM
SIZES, ONE EIGHTH TO TWO INCHES.
ROMAN, ROUND FACE GOTHIC, SHARP FACE GOTHIC, HAIR-LINE GOTHIC, FLATTENED FACE GOTHIC, ANTIQUE POINTED AND REVERSED NAMOS FOR BRANDING IRONS.
ST. LOUIS ELECTROTYPE FOUNDRY
214-216 PINE ST. ST. LOUIS MO.

$25 ON 5 TON
Is what you can save
We make all kinds of SCALES.
WRITE FOR PRICES
Also B. B. PUMPS and WIND MILLS
BECKMAN BROS., Des Moines, Ia.

Chas. Lusted, Sr., La Fayette, Iowa, writes: "THE AMERICAN ARTISAN is the inventor's friend."

THE
HARRINGTON & KING PERFORATING CO.

PERFORATED METALS

OF EVERY DESCRIPTION FOR ALL PURPOSES
AND FOR SCREENS OF ALL KINDS
CHICAGO · U·S·A·
218 NORTH UNION ST. CHICAGO
114 LIBERTY ST. NEW YORK

"EAGLE" BRAND COPPER RIVETS AND BURRS
STANDARD FOR QUALITY. (Lake Superior Copper.) MANUFACTURED BY
THE PLUME & ATWOOD MFG. CO.
29 Murray St., NEW YORK 196 Lake St., CHICAGO

HEADQUARTERS FOR
High Grade Bright Tins
We MANUFACTURE as a SPECIALTY High Grade Bright Tin Plate for
CREAMERY WARE, SAP PANS, EVAPORATORS, COOKERS,
and the better class of other
HIGH GRADE TINWARE.
OUR PRICES WILL INTEREST YOU.
MERCHANT & CO., Inc.,
Philadelphia. New York. Chicago. Kansas City. Brooklyn.

Our immense stock of Eave Trough, Conductor Pipe and Gutter, Roofing Paint, Corrugated and other roofing goods, enables us to ship rush orders quick.
GARRY IRON & STEEL CO., CLEVELAND OHIO

CORTRIGHT METAL SHINGLES
Tinners:
Couldn't you lay these Metal Shingles as profitably as a plain tin roof? Certainly. Write us.
Cortright Metal Roofing Co.
Philadelphia ; Chicago

FIRE
Your Orders for
EAVES TROUGH, CONDUCTOR PIPE, ELBOWS and SHOES, GUTTERS, MITRES, GALVANIZED SHEETS
AT US
Our Motto: QUICK SHIPMENTS.
Get our new Catalogue.
BADGER STEEL ROOFING & CORRUGATING CO. La Crosse, Wis

BURTON'S
Eastlake Shingles
Have been on buildings for 17 years, in good condition yet. Better than any metal, slate or wood roofing sold. Write for catalog.
The W. J. Burton Co.
DETROIT, MICH.

Cream City Cornice Co.
MILWAUKEE, WISCONSIN
Write for Catalogue and Price List.

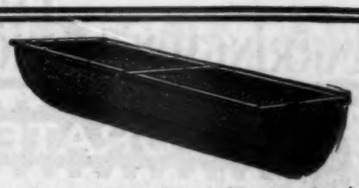
THE NATIONAL SHEET METAL ROOFING CO.
METAL SHINGLES & TILES
FROM TIN, GALVANIZED TIN AND COPPER.
REQUIRE NO PAINTING OR AFTERCARE
RUST, STORM & FIRE PROOF
LARGEST VARIETY OF STYLES
339-345 GRAND ST
JERSEY CITY, N. J.

You do not have to paint
Arrow Brand Asphalt Ready Roofing
When laid according to directions it will need no care for many years.
Asphalt Ready Roofing Co., 136 Water St., N. Y.

Sheet Metal Architectural Ornaments, Statuary, Etc.

ART METAL CEILINGS

Roofing, Corrugated Iron, Galvanized Iron, Corrugated Conductor Pipe, Finials, Weather Vanes, Cresting, Etc., Sheet Copper.



Galvanized Steel Tanks for all Purposes.

FRIEDLEY & VOSHARDT SEND FOR CATALOGUE A 21 194-202 Mather St., CHICAGO, ILL.

Galvanized Eaves Trough! Conductor Pipe!

NO TIME TO DELAY

Get in your Spring Orders. Further advances expected.

THE ORIGINAL Drop a Postal for NEW CATALOG

La Crosse Steel Roofing and Corrugating Co.

LA CROSSE, WIS.

ROOFING SLATE

SLATE BLACKBOARDS

E. J. JOHNSON & CO.

38 PARK ROW, NEW YORK

Quarries: PENNSYLVANIA AND VERMONT

Prices quoted delivered anywhere. Booklet and complete Price List on application. Wire inquiries given quick attention

O'HALLORAN & JACOBS,

ROOFING SLATE

SLATERS' SUPPLIES.

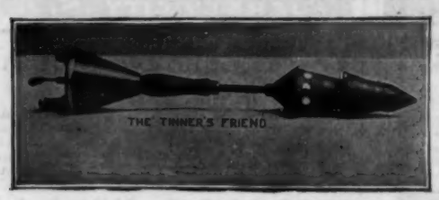
829-830 Park Building, PITTSBURG, PA.

FREE to anyone for asking **CATALOGUE** showing complete line of **TINNERS' AND ROOFERS' SUPPLIES.**

Large stock, great variety, prompt shipments. Get our prices.

BERGER BROS. CO., OFFICE AND STORE, 237 Arch St.; WAREROOMS, 100-02-04 Bread St.; FACTORY, 3114-16-18-20 N. 17th St., PHILADELPHIA.

DON'T WORK TOO HARD!



It is a bother and nuisance to carry around tinner's furnaces and besides it is useless. The Bartholow self-heating soldering iron is positively guaranteed to work in the windiest weather. A man can save three hours a day, and can do better work. It does not burn the tinning off. You have simply to take out three screws, remove the hollow copper point, and you have a first-class blow torch. "IT ONLY WEIGHS FOUR POUNDS." It is sometimes hard to discard new but obsolete outfits, still one ought ro remember that "the scrap pile is sometimes the foundation of a man's fortune."

W. P. BARTHOLOW, 217 Oak Street, S. E., MINNEAPOLIS, MINN.

Write for Prices on

ROOFING SLATE

THE AULD & CONGER CO.

Manufacturers and Dealers

CLEVELAND, O.

ANY OLD FIRE POT WILL DO FOR A TINKER

No. 1 Fire Pot, $6 Net

for the reason that he requires but little to live on, therefore needs but little work: in fact, **like a tramp, he only makes a bluff at trying to get work.** This is not the case with you and other successful men who are really doing things and prosper thereby. **You insist upon having the Best Fire Pot—The No. 1**—and are having your jobber supply you at factory price. Have you our catalog? It tells all about the "Your money back if you are not pleased" line

CLAYTON & LAMBERT MFG. CO.

DETROIT, MICHIGAN, U. S. A.

FLAT CRIMP EXPANDING ELBOWS

No. 1. No. 2. No. 3. Shoe.

PATENTED JUNE 4, 1895

WITH STYLE "B" INSURE PERFECT FIT WITH SQUARE PIPE

Square "A" Made of One Piece

NONE GENUINE WITHOUT SIGNATURE

F. Dieckmann

Sta. B, CINCINNATI

Polished Blue Sheets

UNIFORM AND RICH IN COLOR

INTERSTATE STEEL COMPANY

BRACKENRIDGE, PA.

Gasoline Soldering Iron and Blow Torch

Furnished with two coppers drop forged from bar, one for regular work and one for heavy roofing work. Nothing complicated. No pump to get out of order. No Platinum coils to burn out. Never too hot and never too cold. No wind will blow it out. Can be changed to blow torch instantly. Can be carried in any tool kit, or lineman's belt. Will last for years. Used by tinners, plumbers, painters and electricians. Guaranteed to give satisfaction. If your jobber does not handle them write us.

EMMELMANN BROS. MFG. CO., - Indianapolis, Ind.

ASK YOUR DEALER FOR THE

Sem

Soldering Furnace

AND YOU WILL MAKE NO MISTAKE

Always Ready—No Smoke—No Odor—No Noise—Unexcelled—Unequaled—Unrivaled—Safe—Sure—Durable.

GALVANIZED IRON, BRASS OR COPPER RESERVOIR.
Equipped with Cylindrical Slotted Burner.

MADE ONLY BY

BURGESS SOLDERING FURNACE CO.
COLUMBUS, OHIO, U. S. A.

CORNICE COPPER

Soft and Cold Rolled—all Sizes. Boiler Sheet Copper and Bottoms. All kinds of Tubing, Rod, Sheet and Wire in Copper and Brass. Soldering Coppers.

Send for Stock List of what we Carry in Our Store.

Benedict & Burnham Brass and Copper Co.
211-213 Lake Street, CHICAGO

TINNERS

You can save the price of a No. 10 Furnace in one year's time in the saving of gasoline over other styles; also many dollars' worth of time.

NOISELESS, NO ODOR, NO SMOKE

More Heat with Less Fuel.
Greatest Range of Heating. 3 to 12 lb.
Coppers Indoors or on a Roof.

Order direct of your Jobber, or we will ship direct for $8.50.

GEO. W. DIENER MFG. CO., 217 E. Lake St., Chicago

BERGER'S
Guaranteed Rehammered Charcoal Iron

Purest and Best

A rigid guarantee furnished with every box. Each sheet of

Galvanized Iron,
Tin Plate,
Corrugated Iron
Roofing or Siding
has the
BERGER TRADEMARK.

BERGER'S "Classik" Ceilings

the only steel ceilings honored and awarded the GOLD MEDAL at St. Louis.

Berger's Steel Office Equipment

Awarded the Gold Medal at St. Louis

WRITE FOR CATALOGUES

We make everything in sheet metal. Send us your plans for estimate. Our prices will suit you,

THE BERGER MFG. CO.
Canton, Ohio
New York — Philadelphia
Boston — St. Louis
Art 4-15-05

HOMESEEKERS EXCURSIONS
On FIRST and THIRD TUESDAYS in each month to **VIRGINIA**
Via NORFOLK & WESTERN RAILWAY
For all information as to Rates and Tickets and for LAND PAMPHLETS and descriptive matter, address
ALLEN HULL, D. P. Agt., Columbus, Ohio

"Nothing except the mint can make money without advertising."—Gladstone.

TIN PLATE

We have a large and complete stock of American and Charcoal Iron High Grade Tin and guaranteed Old Style Terne Plates, which are subject to your orders. Our prices will please you; Get them for a postal.

THE CANTON STEEL ROOFING CO.,
CANTON, O.
New York Agency, No. 157 West 23rd Street.

Art Plates of embossed metal is the interior of the future. "Canton" Metal Art Plates are the kind you need if you wish to please your patrons and be proud of your work. They are best always *because the construction is right.* The ceiling with a reputation. If we knew your address, you would receive our Art Metal book "G."

"The Metal" Ceiling Makers.
Baltimore Agency, 1529 Maryland Avenue.

J. H. ELLER & Co
METAL CEILINGS
GENUINE OLD STYLE TIN PLATE
CORNICE SKYLIGHTS VENTILATORS
METAL SHINGLES
EAVESTROUGH CONDUCTOR PIPE
CANTON, OHIO.

We Make In Our Own Designs

Trade Mark

Steel Ceilings, Sidings, Roofings, Eaves Trough, Conductor Pipe, and Fittings, Cornices, Skylights and All Styles Architectural Sheet Metal Work.

Catalogs and Prices furnished upon receipt of complete specifications.

St. Paul Roof'g, Cornice & Ornament Co.
St. Paul, Minnesota, U. S. A.

THE KRAMER BROS. FOUNDRY CO., DAYTON, OHIO

THE KARYALL STOVE CARRIER

Made of Heavy Harness Leather, will carry any style stove or range made.

PRICE EACH

$3.00

Sold by all Jobbers

The Gem Adjustable Stove Carrier

Adjusts from 12 to 24 inches, castings malleable iron.

PRICE EACH

$3.50

Sold by all Jobbers

The Dayton Stove Carrier

Price Each

$2.25

Sold by all Jobbers

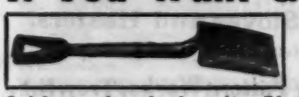
LARGEST MANUFACTURERS OF STOVE CARRIERS IN THE UNITED STATES

NICKEL PLATING OUTFITS.

SEND FOR CATALOGUE OF NICKEL & ELECTRO PLATING SUPPLIES & POLISHING MATERIALS

ZUCKER & LEVETT & LOEB CO.
OFFICES 526, 528, & 530 W. 25TH ST.
NEW YORK, U.S.A.

If You Want Good Shovels Rather Than Cheap Shovels



See that they have one of the following labels, which are our standard brands:

"NEVER-BREAK" NATIONAL BUCKEYE MOHAWK

We do not pretend to compete with inferior goods. If you want high quality, style and finish our shovels show it. If your jobber will not supply you, we will be pleased to quote you prices.

THE AVERY STAMPING CO., Cleveland, Ohio

Sole makers of "NEVER-BREAK" *Seamless Steel Cooking Utensils and other wares, catalogue of which may be had free.*

HILL'S Famous DRYERS for the lawn

500,000 in use.

Made also for Balcony and Roof.
Send for Catalogue AA.

HILL DRYER COMPANY
WORCESTER, MASS.

High Grade Porcelain and Majolica Enameling

in all shades and colors, on steel, sheet and cast iron.

Our Porcelain Enamel is unexcelled for stamped steel Kitchen Sinks, Refrigerator Linings, Lamp Shades and Ventilators, steel and cast iron Registers, Steel Ranges and Steel Stoves of any description and cast iron Stove Reservoirs, etc., etc.

Cast Iron Parlor Stoves or any other cast iron stoves enameled with our Majolica Glazes are an ornament to any home. We have thirty years' experience in this line and there is nothing new about our enamels. They have all stood the test.

Estimates and information cheerfully furnished upon receipt of samples and particulars.

JOHN PEIL ENAMELING WORKS,
187-191 East Naghten St. COLUMBUS, OHIO

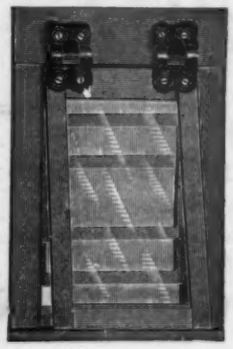
THE DANDY ICE PICK

Full nickel plated; varnished and polished hickory handle. 11 inches long; weighs 8 ounces; rapid seller.

Franklin Specialty Co., Reading, Pa.

5, 10 and 15 cent hardware articles our specialty. Chicago office, 103 Lake St.

Advertising is the root of all money.



Full length window screens keep out all the flies and protect the windows. Screens attached with

GOSSETT'S
Detachable Suspension
HINGES

are easily put up or removed—no tools or ladder necessary. Write for free sample pair.
Sold by Hardware Jobbers and Dealers.
Manufactured by

F. D. KEES, Beatrice, Neb.

Spring Repairs will soon be in order—and when you want Furnace and Stove Repairs quickly for some impatient customer. *send us the order.* We make repairs for all makes of Furnaces, Stoves and Ranges—make prompt shipments—make prices that give you a profit!

A trial order tells our story.

WM. T. DUST COMPANY, 30 Macomb St., DETROIT, MICH.

STOVE REPAIRS

MANUFACTURERS' STOVE REPAIR CO.

517-539 Diversey Boul., CHICAGO

PROMPT SHIPMENTS GIVE US A TRIAL

"BRAUER"

if you are looking for the best place to buy stove dealers' supplies, castings and repairs—promptest shipments, etc. Address,

316-318 North Third St. St. Louis, Mo.

Champion Stove Clay

The only Stove Lining made of crucible materials.

Packed in 2½ lb., 6 lb. and 10 lb. pasteboard boxes.

Order it from your jobber.

The best and most refractory lining made.

Bridgeport Crucible Co. Bridgeport, Conn.

THE POPULAR LINE

with three elegant trains each way between Chicago and

LaFayette, Ind., Indianapolis, Ind., CINCINNATI, OHIO Louisville, Ky., and all points in the **SOUTH AND SOUTHEAST** is the

BIG FOUR ROUTE

Buffet Parlor Cars, or Dining Cars on day trains and Pullman's finest Compartment and Standard Sleepers on night trains. All trains run solid, Chicago to Cincinnati. For reservations, etc., call on or address **J. C. TUCKER**, Gen'l Northern Agt., **238 S. Clark St., CHICAGO, ILL.**

STOVE REPAIRS

Range Repairs
Furnace Repairs

J. L. Morris Stove Repair Co.

CHICAGO, ILL.

WELLER PATTERN Co

DESIGNS and ESTIMATES FURNISHED FOR ALL KINDS OF STOVE PATTERNS

QUINCY, ILL.

The GEO. W. COPE **Stove Pattern Works** Cor. Brush and Woodbridge Streets, DETROIT, MICHIGAN

QUINCY PATTERN Co
IRON & WOOD
STOVE PATTERNS
QUINCY, ILL.

PATTERNS

For Stoves and Heaters.

First-class in wood and iron.

Vedder Pattern Works, Troy, N.Y.

Established 1855.

Silver Leaf Stove Polish $2.00 Per Doz.

"The Beautiful," it's silver.

Black Beauty Stove Polish .75c Per Doz.

"It's as black as it can be."

They are guaranteed stickers.

SILVER LEAF STOVE POLISH CO.
INDIANAPOLIS, IND.

SAYRE STAMPING CO. SAYRE, PA.

See the Corrugation!

Note the method of corrugating and looping to prevent warping and to strengthen the plate. The handle is rigidly clamped to the stem. The stem is sharply pointed—easily driven through pipe and notched to engage edge of plate; held absolutely in place by the spring, will not turn. Plate stamped from nickled steel. The

Uncle Sam Damper

is the oldest and most reliable sheet steel damper made. It is light, strong, durable. Write for circulars.

SAYRE STAMPING COMPANY, SAYRE, PA.

Des Moines Stove Repair Co.

Manufacturers and Jobbers of

REPAIRS for all STOVES and FURNACES

112 to 116 S. West 2nd St. DES MOINES, IA

PATTERNS FOR SALE

Siebrandt & McDowells famous
FARMER GIRL, address

T. B. Harkins Foundry Co.

BRISTOL, PA.

Makers of San, Hercules, Hot Air, Elm, Home and Victor Heaters and a full Laundry line.

We Make It!

The BEST Air Drying Iron Enamel Made.

Try a 1-Dozen Case From Your Jobber.

Nickel Plate Stove Polish Co.,
CHICAGO.

Large 10 oz. Can.

4 Trains a Day
via the

MONON ROUTE
CHICAGO, INDIANAPOLIS & LOUISVILLE RAILWAY

and C. H. & D. Ry.

Only 8 Hours
from
CHICAGO
to
CINCINNATI

BY DAY, Parlor and Dining Cars
BY NIGHT, Palace Sleeping and Compartment Cars.

CHAS. H. ROCKWELL, Traffic Manager. FRANK J. REED, Gen. Pass. Agt.
200 Custom House Place, CHICAGO.

Williams Stove Lining Company

TAUNTON, MASS.

MANUFACTURERS OF

STOVE LININGS

INCANDESCENT GAS FUEL
AND
EAGLE STOVE CLAY

Largest and Most Modern Plant. Unequaled Facilities. TRY US.

BARKEEPER'S FRIEND

Marble, Glass, Nickel, Brass, Copper, Tin and German Silver can all be cleaned and polished with it easier than with anything else.

Price 25c per lb.

Highest Award:—Chicago World's Fair, 1893; Louisiana Purchase Exposition, St. Louis, Mo., 1904.

Let us send you a FREE SAMPLE.

GEO WM. HOFFMAN
295 E. Washington St.
INDIANAPOLIS, - IND.

FOR SALE BY JOBBING TRADE

If You Want Quality

IN plumbago get a sample of our No. 702 Pure Ceylon Plumbago, test it—we don't care how severe the test is—it will do all we claim, and more.

SUCCESSFUL foundrymen everywhere use our No. 702. Are you successful?

May we send you a sample?

THE S. OBERMAYER CO.
CINCINNATI
CHICAGO PITTSBURG
"The House of Quality and Service."

THE ONLY MOLDING SAND

that may be used as mined, without admixture or previous preparation, adapted to the finest castings. Produces best work at low cost.

Highest Award at World's Fair, St. Louis.
Catalogue and information on request.

The Newport Sand Bank Co., Incorporated Newport, Ky.

Chicago Office, 122 Franklin St., KNAPP BROS., Representatives

IMPROVED OIL CAN FAUCET

J. M. LITCHFIELD
227 WATER ST., NEW YORK

W. W. ANDERSON,
Atwood, Ill., writes:

Please discontinue my want advertisement as it has served its purpose, for which I thank you and your most excellent paper. It has been a visitor to the firms with which I have been connected for 12 or 13 years, and no up-to-date hardware man should be without it.

1905 Ocean Wave Washer

With Covered Gear

You want the exclusive agency?
WRITE US.

VOSS BROS. MFG. CO.
Davenport, Iowa

E. H. TITCHENER & CO.

Headquarters for
STAPLES AND THINGS.
Binghamton, N. Y.
and 42 N. Peoria St., CHICAGO.

Peoria Washing Machines

Best In the Market—Made With Ball Bearings

Have a Compound Lever Handle which greatly reduces the work of wash days. The motion used in vibrating the handle takes the strain from the back and lets the arms do the work with a great reduction in labor.
Send for Catalogue. Secure the Agency.

CLARK, QUIEN & MORSE
PEORIA, ILLINOIS

"A Trio of Trade Winners"

The "B.B." Roller Gearing Rotary
The Schroeder " " "
The Brammer Rotary

BEST IN THE WORLD
Write us for further particulars.

Benbow-Brammer Mfg. Co.
ST. LOUIS, MO.

If you're looking for a Washing Machine that is made for long, satisfactory service,—that has strong "talking points,"—and that can be sold at a fair price,—you should by all means, Investigate

O. K. WASHING MACHINES

They're made to please. There's nothing weak about the O. K.,—no springs to repair, no cheap pine to rot or warp,—no complicated gearing to break and cause annoyance.

O. K. Washing Machines are easy running, durable, reasonably priced, steam tight,—and there's a profit in them for the dealer.

Write for our booklet and prices.

H. F. Brammer Mfg. Co., Davenport, Iowa

More Light

If you want the best light possible for your store, for about one-tenth the cost of gas or electricity, write for full particulars about the

ANN ARBOR GASOLINE LIGHTING SYSTEM

BRIGHT AS DAY, CLEAN, CONVENIENT, CHEAP

OUR SPECIAL INTRODUCTORY OFFER

will interest every merchant who believes in modern methods. Write for it to-day. Our catalog shows a full line of Independent Arc Lights and Gasoline Lamps for the house. We can use a few more hustling agents. Write for full particulars to-day.

SUPERIOR MANUFACTURING CO.
249 Second Street, ANN ARBOR, MICH.

You will find that the best paying line that you can take hold of is our

Pure Copper Cable Lightning Rod

We have had hundreds of dealers take advantage of our very low offer of $90.00 for a complete outfit of 1,000 ft. cable, 24 Standards, 24 Braces, 24 Balls, 6 Arrow Vanes, 3 Horse Vanes, and 5 lbs. Staples. If not satisfactory in every way return same at our expense. Do not delay in ordering, but write to-day for agent's contract and our $500.00 guarantee, to

MAHER & SON

Honest Lightning Rod Dealers and Manufacturers

Preston, Ia.

"BOSS" WASHING MACHINES

Illustrations represent our two best selling Washers.

They are non-competitive, therefore most profitable to handle and sell.

Write at once for catalogue and price list, also our nearest distributing point to your location.

The only line of Washers not found in the catalogues of catalogue houses, therefore appeal to every dealer for support.

Address

Boss Washing Machine Co.

Cincinnati, - Ohio

Boss Double Action

This machine is built on the true principle of rubbing clothes, similar to rubbing them on the old fashioned board, only that it rubs a quantity at a time and without the slighest injury to the finest of fabric including laces.

Improved Boss Rotary

Has Gears protected by shield or cover.
" Telescopic dasher post.
" Large Cypress tub and rub-block.
" Either stave or detachable legs.
" Highest speed of any rotary.

Locations for Industries

Erie Railroad System Chicago to New York

The Erie Railroad System's Industrial Department has all the territory traversed by the railroad districted in relation to resources, markets and advantages for manufacturing, and can advise with manufacturers of specific products as to suitable locations, furnishing them with current information of a comprehensive nature, dealing with the project in its full relation to manufacture and commerce.

The Erie is one of the greatest of trunk lines. Its own rails connect the two largest cities of America.

Every section of the System has its particular merits. It has great general and coal, oil and natural gas resources,

It is important in this age of modern facilities for manufacturers to locate where they can obtain side tracks so as to receive from and ship directly into cars at the factory. Information can be promptly furnished in this connection about every point on the system between Chicago and New York.

Manufacturers' inquiries as to locations are treated in strict confidence and absolutely reliable information, so as to promote permanent traffic, is furnished. Address

LUIS JACKSON
Industrial Commissioner
Erie Railroad Company
21 Cortlandt Street, New York

HURWOOD
Pony Screw-Driver

All sizes from 1½ to 12 inches. Best crucible 5-32 inch steel.

For electricians' use the head is countersunk and a non-conducting button securely fastened in, leaving a flush finish.

HURWOOD MFG. CO., Bridgeport, Conn.

Will Anyone Dare

to deny the fact that we **manufacture and sell more White Lily Washing Machines** than is sold of any other rotary washer in the world.

Mr. Dealer! Stop and Think!

Are you handling *the best seller on the market?*

WHITE LILY WASHER CO.
Toledo, Ohio **Davenport, Iowa**

IF YOU WANT R.R. MILK CANS

FACTORY CANS, CREAM-SEPARATORS.

DO NOT FORGET THAT WE ARE STRICTLY IN IT WITH

THE LARGEST LINE ON EARTH.

SEND FOR OUR PRICES BEFORE BUYING.

NATIONAL ENAMELING AND STAMPING CO.
NEW YORK.

ST. LOUIS · MILWAUKEE · BALTIMORE · NEW ORLEANS · CHICAGO · PHILADELPHIA.

CREAM SEPARATOR

In order to get you started with the right line, we will ship you sample 10-Gallon Triple Separator for

$1.56

cash with order. (No water in with the milk.) **Don't miss this. Order at once.**

J. W. WHITLOCK, Libertyville, Iowa

OHIO MILK CANS

Low in Price; High in Quality.

The body sheets of these cans are always offset and riveted. The flange of the breast is always soldered to the body all the way around, both outside and inside.

Write for General Creamery Supplies Catalogue.

BLANKE & HAUK SUPPLY CO. : ST. LOUIS

THE NEW "IDEAL" CREAM EXTRACTOR

Best Seller on Earth

Has utmost cooling capacity. Don't mix milk and water. Inner can instantly removable. Air chamber over entire can. Patent improved milk and water faucets. No water required in winter, and many other superior advantages all described in catalog mailed **Free.**

THE PLYMOUTH MFG. CO., :: Plymouth, Ohio

Smith's Automatic Cream Separators

Nine Different Styles

OUR NEW GAUGE

Made of the very best material and superior in workmanship, as we employ only the very best mechanics. All our separators are equipped with

Smith's Patent Removable Gauge

shown in cut, and found on no other make. Double seamed bottoms, well soldered, and no leaks.

Our prices are reasonable.

Write us now for catalog, illustrating Cream Separators, R. F. D. Mail Boxes, Smith's Strainer Pails, Strainers, etc.

REMOVABLE INNER CAN

SMITH BROS. MFG. CO. 246 E. Kinzie St., Chicago, Ill. 257 S. Meridian St., Indianapolis, Ind.

SPERRY'S CALDRONS

Twelve sizes always in stock.

Full measure, guaranteed perfect, original patterns, with metal distributed where it is needed. Many Caldrons are made from our castings as patterns. They are inferior to originals, as they have light bottoms and heavy sides and hold less.

D. R. SPERRY & CO. HOLLOW-WARE FOUNDERS **Batavia, Ill.**

DON'T WORK—DON'T WORRY

OPEN

Just sell. You'll find it sells because it's made right, because it looks right, because it's priced right. Get it and you'll get the mail box trade in your vicinity. It's called

THE IDEAL RURAL MAIL BOX

The letters can't get wet even when the lid's open. Can be opened from the wagon, etc., etc., etc.

CLOSED

WRITE FOR PARTICULARS TO

C. G. FOLSOM, South Bend, Indiana

BLICK No. 3 THE BEST.

Rural Free Delivery Box

Made of Heavy Galvanized Steel.
Painted with Aluminum.
Positive Locking Flag Signal.
Automatic Spring Latch.
It is a big one—6½x8½x19 inches.
It will Get the Business.
You Better Get It.
Box and Price Right—$5.88 per Dozen.
Better Order Now.

BLICK-WILLIAMS CO., Indianapolis, Ind

ELEVATORS

Improved Quick and Easy Rising Steam, Electric and Hand Power

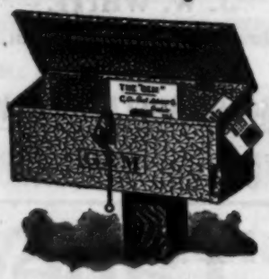
Send for circulars.

KIMBALL BROS. CO.
1031 Ninth St., COUNCIL BLUFFS, IA.
KIMBALL ELEVATOR CO., 129 Vincent St., CLEVELAND, O.

MAKE MORE MONEY

SIGNAL MAIL BOX CO.
106 Benton St., Joliet, Illinois

Here's a Money-Maker



THE GEM

is as good a box as your BEST trade will want and as cheap in price as anyone will care to pay.

No other box so fully meets the requirements for a strong, nice-appearing, popular-price box.

Excellent margin of profit. Ask your jobber.

C. A. PECK HARDWARE CO., Berlin, Wis.

THE AMERICAN ARTISAN Want Ads fill your wants.

ROSENBERG'S

BURGLAR PROOF

Sash Lock and Ventilator

Permits the sash to be raised from the bottom or lowered from the top for desired ventilation without sacrificing security from entrance by burglars.

It is impossible to reach over the partially opened window with the hand, a pronged stick or anything else to unlatch the bolt.

The window cannot be raised or lowered with a crowbar in either opened or shut condition.

No "jimmy," knife-blade or clock spring can be inserted to open *this* lock.

It can only be operated from the INSIDE of the room.

To attach it no cutting of sashes is necessary.

It is the **only absolutely burglar-proof ventilator lock** in the market, and is enthusiastically endorsed by Architects, Builders, Dealers and Consumers.

Draws the Sashes tightly together and locks at any desired point.

RETAIL PRICE:

25c, 35c and 50c, according to Style and Finish.

Free to Every Dealer, a handsomely embossed four-colored display card and wire easel with sample locks attached, who writes for wholesale prices and terms.

SAFETY WINDOW LOCK & VENTILATOR CO.
17-21 QUINCY ST., CHICAGO, ILL.
LIVE SALESMEN WANTED.

Do You Want a Partner?

Warren's TWELVE Silent Salesmen
Required TWELVE Years to perfect
Will Work TWELVE Hours every day
For TWELVE Years to Come
After first TWELVE Months—for nothing

At the end of twelve years experience, in order to learn the opinion of merchants using these a circular letter was mailed to every firm that had tried them, thus reaching stores in large cities, county seats and sequestered communities. The average of replies received contained the following gratifying results:

Increased Sales . .	25 per cent
Less Capital Required .	25 " "
Goods Saved from Injury .	33 " "
Goods Saved from being Misplaced and Lost Track of .	30 " "
Time Saved in Serving Customers . . .	35 " "
Customers preferring them to the Old Way . . .	99 " "
Number of Months in Which They Will Pay for Themselves .	11-7-12 Months

These answers show definitely what they accomplish.

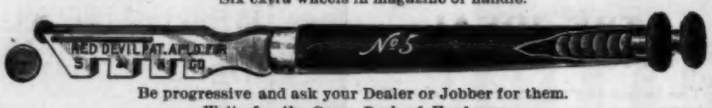
Colored illustrations of the twelve will be mailed to anyone writing for No. 120 Portfolio.

J. D. Warren Manufacturing Co.
5th Floor Masonic Temple, Chicago, U.S.A.

THE WHEEL OF PROGRESS KEEPS TURNING

No. 5 Red Devil Glass Cutter

Wheels will cut 300 yards of glass.
Six extra wheels in magazine of handle.



Be progressive and ask your Dealer or Jobber for them.
Write for the Green Book of Hardware.

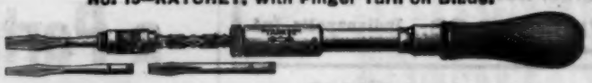
SMITH & HEMENWAY CO., Mfrs. Cutlery & Hdwe. Specialties
296 Broadway, Dept. 5, NEW YORK CITY

"Yankee" Screw Drivers

No. 12—RATCHET, with Stub Blade.

No. 11—RATCHET, Right and Left Hand and Rigid.

No. 15—RATCHET, With Finger Turn on Blade.



No. 30—SPIRAL RATCHET, Right and Left Hand and Rigid.
No. 31— " " Heavy Pattern.
No. 20— " " Right Hand only (3 sizes).

HAVE NO EQUALS.

THEY ARE SOLD BY LEADING JOBBERS.

Send for "Yankee" Tool Book.

North Bros. Mfg. Co., Philadelphia, Pa.

HARDWARE DEALERS

The cut shows one of the most remarkable selling specialties on the market to-day. Any child can operate it. Every child is delighted with it. It sells on sight. Sell one in your community and you'll sell fifty. Write us for our selling plan. This is the time they sell best.

W. H. JOHNSTON & CO., 113 Edmonds Street, PEORIA, ILL.

600 Different Specialties

Household Inventions and Bath Fixtures.

If you haven't our Catalog write at once.

Silver's Brooklyn

304-314 Hewes St., 432 Broadway. **BROOKLYN, N.Y.**

A SUITABLE LOCATION

for any physician, professional or business man as well as any industry is easily found by consulting the Industrial Department of this Company.

The proposition submitted will be attractive, embodying full information, such as will enable intelligent action in such an important matter as change of location.

Our monthly magazine of Southern Opportunities will prove invaluable to those interested in the South.

THE LAND OF MANATEE

is the most beautiful section of the world, recently discovered by the Seaboard.

The climate is delightful, winter and summer, the atmosphere salt-laden and perfumed by the odor of thousands of blossoming orange, lemon, grape fruit and guava trees, and most beautiful and fragrant of flowers.

A land of perfect health and plenty, ideal living, where crime, trouble and ill-health are positively unknown. Cultured, refined people. Manatee booklets free on request.

The most costly piece of literature ever issued by a railroad is the special southern edition of the Seaboard Magazine of Opportunities—yes, there is one for you. It is unique, contains no advertisements, and little reading matter. Embodies numerous full page photo-gravures, the most exquisite examples of modern printers' art. It would command fifty cents from booksellers.

Sent free upon receipt of ten cents for postage.

J. W. WHITE
General Industrial Agent,
Portsmouth, Va.

SEABOARD AIR LINE RAILWAY

Have You Subscribed?

Measuring Tapes

Steel, Metallic, Linen, etc. Our Goods are Recognized as the Best. Tinners' Rules, Magic Pattern Rules, etc. Send for Catalogue and Mention The American Artisan.

Lufkin Rule Co.

SAGINAW, MICH.

Soft Wood File Handle

Write and get our bargain prices on this specialty.

Hoes, Planes, Hand Screws and Other Carpenters' Tools

We make the best plane iron on the market and supply more than three-fourths of the irons now used in wood planes.

Sandusky Tool Co.

Sandusky, Ohio

This Label on all Taplin's Pat. Improved **Dover Egg Beaters** stands for **Quality and Durability.**

THE TAPLIN MFG. CO., New Britain, Conn., U.S.A.
155 Chambers St., New York.

Bolt and Screw Cases

Save Time and Money

A necessity for Hardware Dealers, Machine Shops, Pattern Shops and in fact any one who handles small articles; last indefinitely. Send for descriptive booklet.

AMERICAN BOLT AND SCREW CASE CO.
Dayton, Ohio U.S.A.

New Goods

We have added to our already large line of Improved Adjustable Planes, a large number of New Planes, Routers, Scrapers and Spoke Shaves.

WRITE FOR LIST AND PRICES.

NOTE—We Do Not Sell Catalogue Houses. Sell goods not in competition with you through this source.

OHIO TOOL COMPANY

Factories: COLUMBUS, OHIO AUBURN, N. Y.
New York Office: J. C. McCARTY & CO., No. 10 Warren Street

"Pullman" TROUSER HANGERS

No. 4 Size

Leads them all. Folder No. 25 tells why. Sent free.

PULLMAN MFG. CO., Rochester, N. Y., U. S. A.

ALL KINDS OF

WOOD PLANES

BEECHWOOD
APPLEWOOD
ROSEWOOD
and BOXWOOD

Rules, Plumbs and Levels, Gauges, Handscrews, etc.

THE CHAPIN-STEPHENS Co.

LOCK DRAWER 13 UNION FACTORY
PINE MEADOW, CONN., U. S. A.

MANUFACTURERS

Contemplating establishing plants in the West should take advantage of a location on

THE NORTH WESTERN LINE
C & N W RY

Chicago & North-Western Ry.

which reaches the famous

Water Powers, Coal Fields, Iron Ore Ranges, Hard and Soft Lumber Districts

of the West and Northwest, and affords the best means of transportation to the markets of the world. For further particulars apply to

MARVIN HUGHITT, Jr. Freight Traffic Mgr.
E. D. BRIGHAM Gen'l Freight Agent
CHICAGO

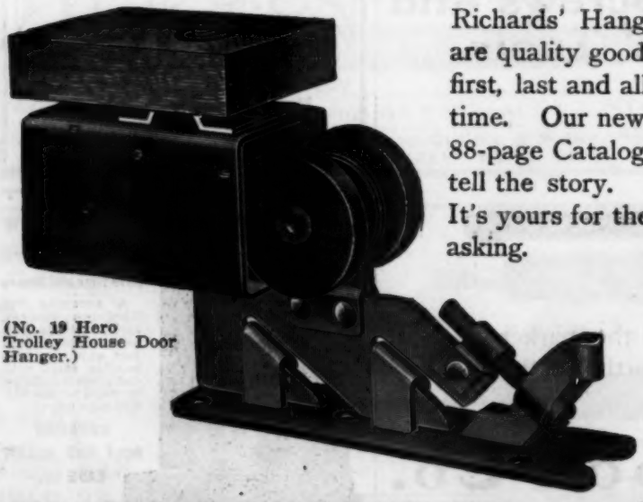
STANLEY RULE AND LEVEL CO.

IMPROVED CARPENTERS' TOOLS

Sold by All Hardware Dealers **NEW BRITAIN, CONN.**

Don't Buy Hangers Because They Are Cheap

Don't Expect Something for Nothing!

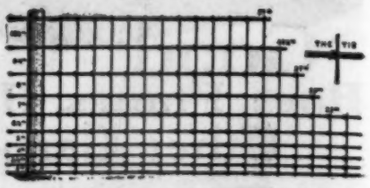


(No. 19 Hero Trolley House Door Hanger.)

Richards' Hangers are quality goods first, last and all the time. Our new 88-page Catalog will tell the story. It's yours for the asking.

THE RICHARDS MFG. CO., Aurora, Ill.

The Fence That Suits



Your Customer
Is the one for you to handle.

Woven Field Fencing
Both Single and Double Strand.

JUMBO POULTRY turns everything.
Lighter Poultry for less money of Various Weights.

Lawn and Cemetery Fence, Barb Wire, etc.

SEND FOR CATALOGUE.

THE DENNING WIRE & FENCE CO.
CEDAR RAPIDS. - IOWA

Stay-In Flue Stoppers

Brass finished. Nicely decorated. Cannot be jarred or blown from flue hole. Guaranteed to be soot proof.

Perfection Cake Mixer

Made of No. 16 steel. It's one of the best articles on the market. Almost everybody thinks so.

STUBER & KUCK, Peoria, Ill.
Manufacturers of Pieced Tinware and all styles of Flour Sifters

NEW YORK CLIPPER

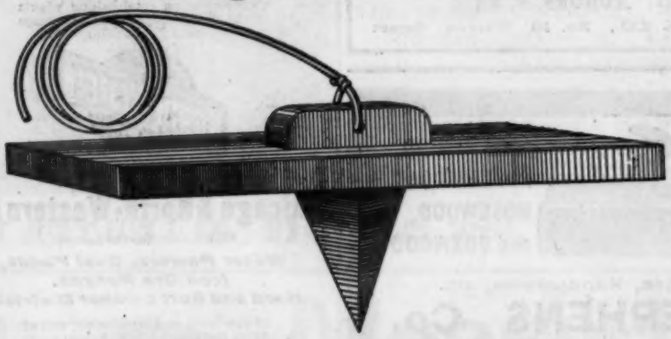
IS THE GREATEST
THEATRICAL & SHOW PAPER
IN THE WORLD.

$4.00 Per Year. Single Copy, 10 Cts.
ISSUED WEEKLY.

SAMPLE COPY FREE.

FRANK QUEEN PUB. CO. (Ltd), PUBLISHERS,
ALBERT J. BORIE, MANAGER. 47 W. 28TH ST., NEW YORK.

No Argument Needed



It Speaks for Itself

The Lenawee Wire Fence Anchor

fills a pressing need readily understood by all farmers and stock raisers who use wire fencing. Holds fence close to ground and saves posts. Made by

The Lenawee Manufacturing Co.
WRITE FOR BOOKLET ADRIAN, MICH.

Clipper Lawn Mower Co.

DIXON, ILL.

THE MOWER that will **Kill all the Weeds in Your Lawns.** If you keep the weeds cut so they do not go to seed, and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear. **The CLIPPER will do it.**

NO MAN ON THE ROAD.

SPOT CASH PRICES TO THE TRADE.

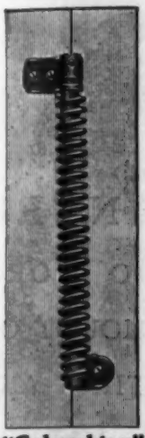
No. 1.—12-inch	$4.50
No. 2.—15-inch	5.00
No. 3.—18-inch	5.50
No. 4.—21-inch	6.00

Please send Draft, P. O. Money Order or Express Money Order or Registered Letter.

Get Ready for the "Good Old Summer Time"

It will be here before you know it and so will a generous supply of flies and bugs.

Same old crowd swarming around the screen door anxious to get at the good things within.



"Columbian" (TRADE MARK)

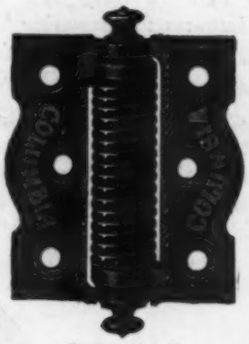
Same old crack through which they pour in because the same old, worn out, weak spring hinges keep the door constantly ajar.

Fine for the flies but hard for the housewife.

And yet you can supply her with our "Columbia," "Acorn" or "Cloverleaf" screen door hinges at the price she paid for those inferior hinges.

Our hinges have strong springs which close the door quickly and keep it closed.

They are the kind that last from year to year and they are nicely japanned or plated in a variety of finishes.



"Columbia" (TRADE MARK)

"Torrey" (TRADE MARK)

Further information given in our "Builders Hardware" Catalog No. 12, which also describes our door springs and door pulls. Send for it now and be prepared to buy early.

The Columbian Hardware Co., Cleveland, Ohio

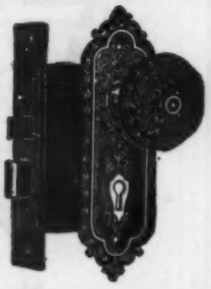
New York San Francisco Chicago London

THE TAYLOR & BOGGIS FOUNDRY CO.

CLEVELAND, OHIO

MANUFACTURERS OF **LIGHT GRAY IRON CASTINGS**

Builders' Hardware, Dampers and Damper Clips, Oil and Gas Stoves, Furnace Lamps, Molasses Gates, Letter Boxes, Hardware Specialties.



Ideal and Victor Adjustable Grass Carriers

The "IDEAL" is the only adjustable "full" metal bottom carrier made. Can be adjusted from 12 inch to 20 inch mowers. Is very durable and first class in every respect.

The IDEAL is made in two regular sizes from 12 inches to 18 inches, from 18 inches to 20 inches; larger sizes if desired.

The "VICTOR" is a canvass bottom carrier with a galvanized iron front to prevent wear, and forming a stopper to prevent the grass rolling out.

Sold by leading jobbers.
Write for catalog.

KRAUSE MFG. CO.

7701 Goldsmith Ave., - CHICAGO

The Diamond Point Vim Champion Cross Cut Saw

Made of DISSTON'S Finest Crucible Steel.

Tempered by an exclusively DISSTON PROCESS, which imparts the Superior "Edge and Set-holding qualities" for which the DISSTON Brand of Saws are RENOWNED.

Ground an even gauge throughout the entire tooth edge, and five gauges thinner on the back than on cutting edge, which INSURES A FREE RUNNING AND FAST CUTTING SAW.

WE GUARANTEE THIS SAW TO DO MORE WORK WITH A GIVEN AMOUNT OF FITTING AND EXERTION THAN ANY OTHER MAKE OF SAW ON THE MARKET

HENRY DISSTON & SONS, Inc.

Keystone Saw, Tool, Steel & File Works

PHILADELPHIA, PA.

A New One!

4 Knives with each Machine

Always "something doing" in "Enterprise" goods.

The latest is a new size chopper for household use, No. 50, that housekeepers are already clamoring for.

Retails at $1.25, chops 1½ pounds of meat per minute, and is just as good as all the other "Enterprise" choppers.

Exactly like No. 100, which sells at $1.50, and No. 300, which sells at $2.25, except in size.

It's the baby

"ENTERPRISE" Food Chopper

No. 50

It makes the line complete.

Three sizes of household choppers, guaranteed to chop raw meat and vegetables of all kinds. Fine or coarse.

Order today from your jobber.

Look over your line of Cherry Stoners, Lawn Sprinklers, Ice Shredders, Fruit Presses.

Fill up the gaps. Busy times ahead.

Write for complete, illustrated catalogue of "Enterprise" goods.

The Enterprise Mfg. Company of Pa.

Philadelphia, U. S. A.

New York Branch, 10 Warren St. San Francisco Branch, 104 Front St.

PETERS AMMUNITION

Offers the Retail Hardware Dealer a good profit and the satisfaction of handling a strictly up-to-date first-class line—one which he can conscientiously recommend—which will bring him increased business and hold it. Peters goods are

THE EASIEST TO SELL—THE BEST TO SHOOT

All Peters metallic cartridges (except, of course, the smokeless) are loaded with the wonderful Semi-smokeless powder, much superior to ordinary black powder goods. Peters Loaded Shells include a complete line—seven kinds in all—loaded with high quality black powder, Semi-smokeless powder, or any of the standard smokeless brands.

No Hardware dealer can afford to handle goods of only moderate quality, when the BEST can be had at the same price.

Ask your jobber about it. If he doesn't sell Peters goods, write the manufacturers direct and they will tell you where to get them.

THE PETERS CARTRIDGE CO., Cincinnati, U. S. A. New York, No. 98 Chambers St., T. H. Keller, Mgr.

DOCTORS RECOMMEND IT

A HYGIENIC WATER COOLER

Ice and water in separate compartments and water is kept at an even temperature.

The inside is made of malleable iron, and water compartment is lined with white porcelain. Metal parts are not exposed to the outside air, and consequently the amount of ice used is comparatively small.

Economical, handsome, substantial—with nothing to get out of order. Will last a lifetime. It never sweats. Has an extra faucet to draw off melted ice.

A GOOD SELLING SPECIALTY FOR HARDWARE DEALERS.

A. MAJOR, 461 PEARL STREET, NEW YORK CITY.

Are You a Dead One?

Then You Should Do One of Two Things.

1. Write to Joseph Karwowski, Herkimer, N. Y., who was recently granted a patent for preserving the dead in blocks of glass, making them desirable parlor ornaments.

2. Or else write to the Lee-Glass-Andreesen Hardware Co., Omaha, Neb., and lay in a line of goods that are money-makers as they are offered you at prices that enable you to make good margins, are specially adapted to your section and are shipped promptly.

TO SUMMARIZE

If you are going to stay dead, for heavens sake be ornamental, at least.
If you want to be alive again, connect with a live jobber.

McClure's Roofing Tin

Better values for your money in roofing tin than you've ever had before. **Let us prove it.**
Write for samples and prices.

The McClure Co.
Pittsburgh Philadelphia

NOTICE!

We have exceptional facilities for handling American products: Hardware, Sanitary, Heating and Ventilating Goods. Branches in England and Continent. References furnished. Address
EXHIBIT & TRADING CO., Main Office, 72 Henry St., Liverpool, England

Who Wants Waster Tin Plates?

We Have Them All Kinds

FOLLANSBEE BROTHERS CO. PITTSBURGH, PA.

Tinners Find Employment
By advertising and using
THE POWERS AUTOMATIC CHIMNEY TOPS
They make chimneys draw, give Tinners employment making stocks, and give the dealers profit. Sold by Hardware Jobbers and Dealers
Made only by
POWERS BROS.
Streator, - Ill.
This cut free to dealers.

The "CENTENNIAL" RAIN-WATER CUT-OFF
The strongest, most durable and cheapest CUT-OFF on the market.
The only single Cut-off made to fit CORRUGATED and Plain pipe and which can be used without extra pipe or elbows. For sale by all leading jobbers.
Patent applied for.
Manufactured only by
COONEY & GEIGER,
19 and 21 E. South St.
INDIANAPOLIS, IND.

There's nothing haphazard about Roofing Tin. You get what you pay for.

NONPAREIL Old Style is *absolutely* the best Roofing Tin for the money on the market. We make other brands to meet every purpose—but pin our faith to NONPAREIL—every time.

Each sheet is evenly coated with a rich, Terne mixture, free from pin holes, and stamped and resquared.

Our Special Price List on Request.

ILLINOIS ROOFING & SUPPLY CO.
23 Lake St., CHICAGO.

DEALERS

Throw your line among Fishermen and you'll get a strike—with a rush for the goods—if it's the genuine line of

Pflueger's Fine Fishing Tackle

made only by the
Enterprise Manufacturing Co.

25 years of experience, combined with the largest manufacturing facilities in this country, enable us to produce a superior line of fishing tackle that fishermen insist on having.

PFLUEGER'S PATENTED REVERSIBLE HINGE INSURES FREE SPINNING AND PREVENTS BENDING OR BREAKING

Hooks, Flies, Trolls, Spinners, Phantoms, Reels, Furnished Lines, Everything in Fishing Tackle, packed for effective display.

Best Selling Line You Can Carry.

NOTICE—Free to any dealer in sporting goods, sent express prepaid, 155 page illustrated catalogue, No. F23, metal fish sign, and window transparency in 8-color lithograph.

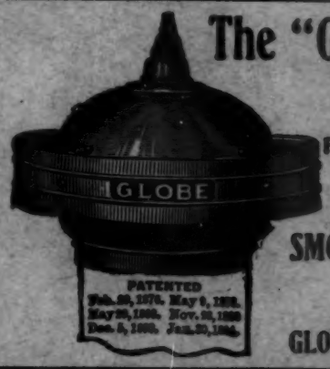
The Enterprise Manufacturing Co.
AKRON, OHIO, U. S. A.

OSGOOD STANDARD SCALES

Ask your jobber about them.

BRADLEY SHELF BRACKETS

STRONG, LIGHT AND ALL RIGHT
Atlas Mfg. Co., New Haven, Conn.



The "GLOBE" Ventilator

In BRASS, COPPER, GALVANIZED IRON, and with Glass Tops for Skylight purposes.

For Perfectly Ventilating Schools, Churches, Halls, Mills, Factories and Audience Rooms of Every Character.

SMOKY CHIMNEYS CURED.

"GLOBE" Ventilated Ridges. Send for Pamphlet.

Manufactured by
GLOBE VENTILATOR CO., Troy, N.Y.

The ATKINS HACK SAWS Are Great—Sellers

Here's the most desirable Hack Saw Frame on the market — a time saver — adjustable to different length blades—made of finest steel—nickel plated—sure to please every metal worker. A great seller.

ATKINS HACK SAW BLADES will cut anything. Harder than a file. Always reliable. Our "Spring Flexible Back" Hack Saw Blades are unequaled by any of the so-called Spring Back Blades on the market They stand in a class by themselves. Write for Booklet and Prices.

E. C. ATKINS & CO., Inc., Indianapolis, Ind.

Branch Houses: New York City, Atlanta, Ga., Portland, Ore., Chicago, Ill., Memphis, Tenn., Minneapolis, Minn., Seattle, Wash., San Francisco, Cal. Toronto, Canada